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FOUNDATION FOR AMATEUR RADIO

April 1992

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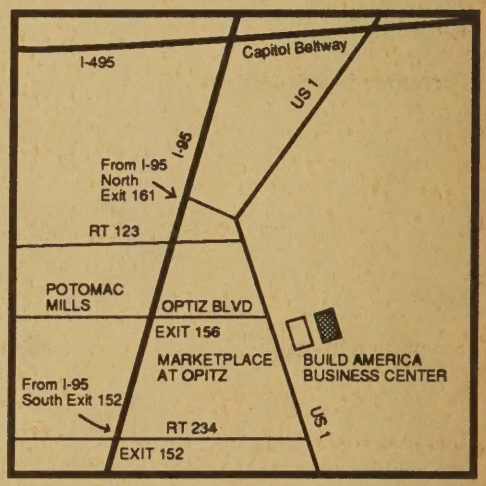

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Washington Area Young Ladies' Amateur Radio Club
Woodbridge Wireless, Inc.

EDITORIAL
by Phil Russo - N3GDD

I've been searching for some time for a theme for this, my last article as president. Actually, I've been reviewing some of my old articles to maybe catch an idea. As most anyone knows, I'm not a writer by profession and this sort of thing is hard for me. So at the risk of looking stupid I've asked Ethel to leave the blue pencil in the drawer for this last one.

The last two years have been a great honor for me, to serve the Ham community, to give back something (hopefully constructive) to Amateur Radio which in just a few short years has brought me so much joy and fun. The experience has also been humbling. To be in the company of some great minds not only in the Amateur ranks but in each of these people's respected professions. Having never had a hobby or outside interest other than my work or family until 5 years ago most all of you out there have had a profound effect on me, my life style and my thought process.

In the words of First officer Spock of Star Trek fame "the needs of the many outweigh the needs of the one." Or something on that order. To my detractors I can only say, I'm not sorry for the things I did. You and/or your trustee put me here. I'm not a god, or all knowing and all seeing. I'm not even a 200 I.Q. I'm just an average person who has done the best possible job under varying circumstances. Much like any elected official, I had a vision of where all this potential kinetic energy we call The Foundation for Amateur Radio should be pointed. I've tried to meld respect for the "old guard" with the enthusiasm of the "new guard." Low and behold we have accomplished some very good things over the last 2 years. As an organization, our reputation has prospered and our geographic effectiveness has also grown. The thing that I have been proudest of, is the most lively Trustee meetings in anyone's recent memory. No more snooze jobs around here. And wouldn't you know it, I missed the "mother of all meetings" in February! Wish we had instant replay.

For all that we as a group have accomplished, I have been called, dictator, demigod, insensitive and harsh. To all of you I say in the words of N3CKD, "life goes on".

(Continued on page 29)

INDEX

COLUMNS

ARRL REPORT	11
DX COLUMN	21
ELMERS' CORNER	23
FCC HIGHLIGHTS	7
PUBLIC SERVICE REPORT	15
SRAM - Amateur Radio in the USSR	27
TRAINING	24
VOLUNTEER EXAMINER CO-OP.	25
WANT ADS	55

SPECIAL FEATURES

Annual Spring Banquet	33
ARES/RACES Leadership	17
FAR Scholarships offered	30
Recognitions	32
Silent Keys	32
Special Events	19

CLUB REPORTS

AMRAD	47
Anne Arundel	50
Arlington Amateur Radio Club	49
Fauquier Amateur Radio Club	38
Goddard Amateur Radio Club	53
Herndon Repeater Group	39
IBM Amateur Radio Club	43
MADRAS	40
Maryland Mobileers Amateur Radio Club	46
Metrovision - Amateur TV	37
Montgomery Amateur Radio Club	35
Mt. Vernon Amateur Radio Club	44
National Capital DX Association	42
Ole Virginia Hams Amateur Radio Club	45
Prince George's Wireless Association	38
Southern Maryland Amateur Radio Club	48
Tri County Amateur Radio Club	41
Vienna Wireless Society	52
Woodbridge Wireless, Inc.	51

ADVERTISERS

EEB Electronic Equipment Bank	6
G & G Electronics	54
Ham Radio Outlet	2
Hayman Business Systems	31
Maryland Radio	10
R.F. Connection	59
SkyPoint Ham Center	61
Virginia Micro System	48
Williams Radio	14

Coming Events

Mar 28-29	Greater Baltimore Hamboree, Timonium (Baltimore), MD (Page 22)
Apr 5	Raleigh, NC Hamfest
Apr 24	QCWA Pre Hamvention Banquet, Dayton, Ohio (See Page 19)
Apr 24-26	Dayton Hamvention, Dayton, Ohio
May 2	Kent Island Hamfest, Grasonville, MD
May 3	Penn-Dell ARC Hamfest, New Castle, Del. KA3TWG [Not Apr. 12]
May 10	FAR/QCWA Annual Spring Banquet, Greenbelt, MD (See Page 33)
May 10	Roanoke Valley Hamfest, Vinton (Roanoke), Virginia
May 15-17	Rochester Hamfest, Rochester, New York
May 16	Roanoke Valley Hamfest. Contact N4NPD (703) 992-1261
May 17	Wheeling, WV Hamfest. West Virginia's largest Hamfest
May 24	Maryland FM Assn. Hamfest, Howard County Fairgrounds (Page 20)
Jun 7	Ole Virginia Hams Hamfest, Manassas, Virginia
Jun 7	Breeze Shooters Hamfest, Butler, PA (Pittsburgh). Info N3BPB
Jun 21	Frederick Hamfest, Frederick, Maryland
Jun 27-28	Field Day
July 12	Carroll County Hamfest & Computer Show, Westminster, Maryland
July 26	BRATS Hamfest and Computer Fest, Timonium, Maryland
Aug 2	Shennandoah Valley Hamfest, Berryville, Virginia
Aug 8-9	Maryland/DC QSO Party. Info WA3AAT or WA3EOP
Aug ?	Southern Patuxent Hamfest, Uper Marlboro, Maryland
Aug 20-23	ARRL National Convention, Los Angeles, CA
Sep 5-6	Shelby Hamfest, Shelby, North Carolina
Sep 13	F.A.R. FEST, Gaithersburg, Maryland
Sep 19-20	Virginia Beach Hamfest, Virginia Beach, Virginia
Sept ?	ARRL Computer Networking Conference, Northern New Jersey
Oct 10-11	DXPO-92 Holliday Inn, College Park, MD
Oct 11	Columbia ARA Hamfest, Howard County Fairgrounds *[Not Oct 4]*
Oct 18	Cumberland County Hamfest, Carlisle, Pennsylvania
Nov 1	Mason-Dixon Hamfest, Westminster, Maryland
Dec 6	HolidayFest '92, Largo, Maryland
Dec 11	Southern Maryland ARC Annual Christmas Dinner/Meeting, Camp Springs, MD Elks lodge.
1993	
Jul 17-18	Southeastern Division Convention, Atlanta, Georgia
Aug 13-15	ARRL National Convention, Huntsville, Alabama

Thanks to Bob Milligan - KI4MB and the SERA Repeater Journal for providing much of the above information. Please keep Auto-Call advised of coming Hamfests and other important Coming Events. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities.

We can use all the help we can get!

THE NEW GENERATION ROTATORS

THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

Model/ Specs	The New Generation									Old Generation	
	Create RC5	Create RC5A	Create RC5B	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FXX	Emoto 1300MSAX	Emoto 1800FSX	Telex HamIV	Telex T2X
Rotate Torque F/#	43	116	160	37	50	57	143	215	287	67	83
GD2 KgM² Ant Inertia	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Brk/Static Torque F/#	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load In Tower (8)	10	25	25	11	22	27	27	33	36	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	60	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Opt 3	Opt 3	yes	no	no	Opt	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia.	2-2.5 in	2-2.5 in	2-2.5 in	1.2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max load #	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Rotor wt/#	13	17	20	7.5	9	11	11	13	39.5	24	28
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Pricing (5)	$269.00	449.95	799.00	209.95	399.00	589.00	679.00	1099.00	3272.00	369.95	439.95
With Preset	$379.00	$528.95				$663.00					

Notes:
1. Turns Tribander 4700 in 35 seconds
2. Variable speed 40 sec max
3. Variable speed w/SCR constant rotational torque at any speed
4. T2X and HamIV have same motor and gear train parts
5. EEB prices as of 5/91 subj to change
6. 120/220 taped transformer
7. 120V normal 220V special order
8. Wind Load in Sq. Feet

THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

CREATIVE DESIGN ROTATORS

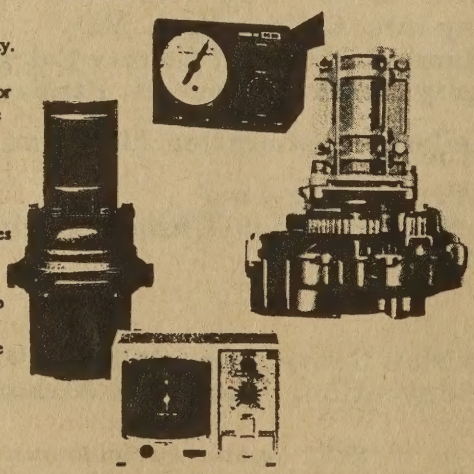
CREATE is serious about long term reliability. The CREATE RC5 series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

ROTOR FEATURES OF RC5 SERIES

* Large strong reduction gear system provides long term reliability during years of rugged operation. * Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions. * Cast and machined aluminum case provide the strength required for long lasting service. * Mast clamp guides for ease of mast installation.

CONTROLLER FEATURES OF RC5 SERIES

* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees. * Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system. * Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east).* Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD² formula considers your antenna (s) weight, boom and longest element length . The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft.=1 meter. Calculate your GD² than compare EMOTO GD² spec above.

$$GD = W \times \frac{L + B}{12}$$

Where: W: weight of antenna (kg)
L: length of longest element (m)
B: length of boom(m)

GD² EXAMPLES: Kgm²

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.

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FCC Highlights

by Jack Kelleher - W4ZC

The Fat Lady has Sung.

On March 4, 1992 the FCC released a Memorandum Opinion and Order "tidying up" its original Order establishing a codeless class of amateur operator license, and terminating the proceeding. The text of the MO&O is quoted below, less footnotes.

I. INTRODUCTION

1. On December 13, 1990, the Commission adopted a Report and Order (Order) in this proceeding that, inter alia, established the Technician Class amateur operator license as the codeless class of amateur operator license. The purpose of this Order was to offer an entry-level license opportunity to otherwise qualified persons who find a telegraphy requirement an unnecessary barrier to pursuing the purposes of the amateur service. Since the adoption of this Order, we have received over sixty letters highly supportive of our decision. We have also received more than forty-five letters informally requesting that we clarify or modify various portions of this Order. This Memorandum Opinion and Order denies these requests.

II. BACKGROUND

2. The objections to our Order generally fall into four areas. A number of letters argue that we should have created a new sixth class of license so that codeless licensees could be readily distinguished from licensees who have passed a Morse code examination. Other letters request that we reconsider the privileges of the codeless Technician Class license. Other letters request that we require stations where the control operator is a codeless Technician Class licensee to use a distinctive suffix after the station's call sign when the station is transmitting on the high frequency bands. A few letters still dispute need for a codeless license in any form. The American Radio Relay League, Inc. (League), while not requesting reconsideration of our Order, made a number of general comments and pointed out a minor error in footnote 33 of the Order.

III. DISCUSSION

3. Section 1.429 of the Rules, 47 C.F.R. 1.429, governs the filing of petitions for reconsideration in rule making proceedings. That section requires that petitions for reconsideration must show changed facts or circumstances, or facts that were unknown to the petitioner until after the petitioner's last opportunity to present them to us. None of the letters we have received meet the standards of a petition for reconsideration. The letters fail to present any facts or raise any issue that we did not consider in the Order. For example, we found that the addition of a sixth class of license, as requested again, is neither desirable nor achievable without unacceptable effects upon our workload. Further, we determined that our present computer system will not support six classes of licenses without new and significant expenditures of resources. We also addressed questions about the examination requirements and frequency privileges of the codeless Technician Class license. We concluded that the existing question pools for Elements 2 and 3(A) should contain questions that test whether an examinee has the requisite qualifications to perform properly the operator duties at an amateur stations transmitting exclusively above 30 MHz.

4. We also decided that our call sign assignment policy would be inconsistent if we required a station controlled by a Technician Class licensee who also has a Certificate of Successful Completion of Examination (CSCE) for a telegraphy element to append an indicator to the station call sign when identifying. This requirement, if we had adopted it, would have caused stations of codeless Technician Class operators to be identified with shorter call signs than stations of other Technician Class operators who have passed more examination elements and have more privileges. The Order also addressed the need for a codeless class of amateur operator license. The comments clearly confirmed that the amateur community is undergoing a dramatic shift in sentiment concerning the value of Morse code as an entry level license requirement. We also found that for the amateur service to achieve its purposes, the participation of as many qualified persons as possible who desire to pursue those purposes is needed.

IV. ORDERING CLAUSES

5. In view of the foregoing, and pursuant to the authority contained in 47 U.S.C. 154(1), IT IS ORDERED that the letters requesting modification of the Commission's decisions ARE DENIED except as indicated herein.

6. IT IS FURTHER ORDERED that footnote 33 of the Order IS CORRECTED by changing the phrase "the entire 23 centimeter band" to "1270-1295 MHz".

7. IT IS FURTHER ORDERED that this proceeding IS TERMINATED.

8. For further information concerning this Memorandum Opinion and Order contact William T. Cross, Private Radio Bureau, (202) 632 4964,"

WARC-92 Concluded.

The Department of State, the Federal Communications Commission and the National Telecommunications and Information Administration issued a joint statement on March 4, 1992 which said in part:

"The agenda for the conference was driven by U.S. technology and U.S. entrepreneurs who have developed the next generation of communications systems that take advantage of the latest communications technology. Thanks to the leadership of Ambassador Baran and the hard work of the U.S. Delegation and support staff, new frequency allocations were obtained for innovative technologies such as low earth orbit satellites, space exploration services and satellite based high definition television. Additional frequency allocations were obtained for mobile satellite services and high frequency broadcasting.

"The Final Acts of the Conference will be published by the ITU and presented by Ambassador Baran upon return of the Delegation to the United States. A service-by-service summary of the agreements reached by the Conference is contained in the detailed press release issued by the ITU on March 3, 1992".

The ITU Press Release includes a paragraph on the Amateur Service, viz: "Given the fact that no spectrum was freed by WARC-92 in the 7 MHz band, a further world-wide allocation to the amateur service in this band was not considered possible. A Recommendation (COM4/C) was therefore adopted inviting a future WARC to consider the possibility of aligning the allocations to the amateur and Broadcasting services around 7 MHz so as to provide a worldwide allocation"

FCC: No more TVI -- for them.

(From Westlink Report, 2/26/92)

"The FCC says that TVI and RFI complaints will never again be a problem -- for the agency. According to John Theimer, Engineer-in-charge of the Commission's Miami, Florida Field Operations Bureau office, the FOB has adopted a new policy in dealing with home interference cases. Since the bureau is underfunded to handle individual cases, Mr. Theimer explained, it will therefore no longer respond to these types of incidents.

Theimer, who spoke at the recent Tropical Hamboree, noted that from now on, the only action the FCC will take in response to complaints from the public about RFI and TVI is to send out a letter accompanied by a booklet written to generally cover solutions to a given type of consumer electronics. The letter will indicate that the consumer should contact a given manufacturer for his TV, VCR, radio, thermostat, etc., or service provider (telephone or cable TV company, for example) and request resolution of the problem.

The FCC official said that even though the FCC is getting out of the business of providing solutions, the problem of TVI and RFI is not going away and is one that holds the potential for worsening as the Amateur Radio Service continues to grow. "We have noticed an increase recently in amateur interference to home Entertainment equipment. This may be dictated by a proliferation of amateur stations and equipment out there. So, what I am asking and suggesting is that, if you want to keep good neighbor relations, be very sensitive to your neighbor's complaint".

Theimer closed his remarks by praising the vast majority of amateurs who operate their stations without causing interference to the general public, but also issued a warning that an amateur radio license is not a permit to create such a problem: "If I were an amateur

and I had a problem with a neighbor, I certainly would try to do everything I could to resolve the problem. Don't take the attitude that because you are licensed by the FCC that you have a right to cause all sorts of problems. Even though the neighbor's equipment may be susceptible to interference, you are going to have one sore neighbor and this can mutate into quite a neighborhood conflict".

Your reporter enthusiastically agrees with one Westlink editorial comment in particular, that they "would prefer for the FCC to take the responsibility that Congress has charged it with and set sufficiently high RF immunity standards for manufacturers to achieve before type-accepting their products. Amateurs would be protected from unnecessary RFI complaints.

jjk

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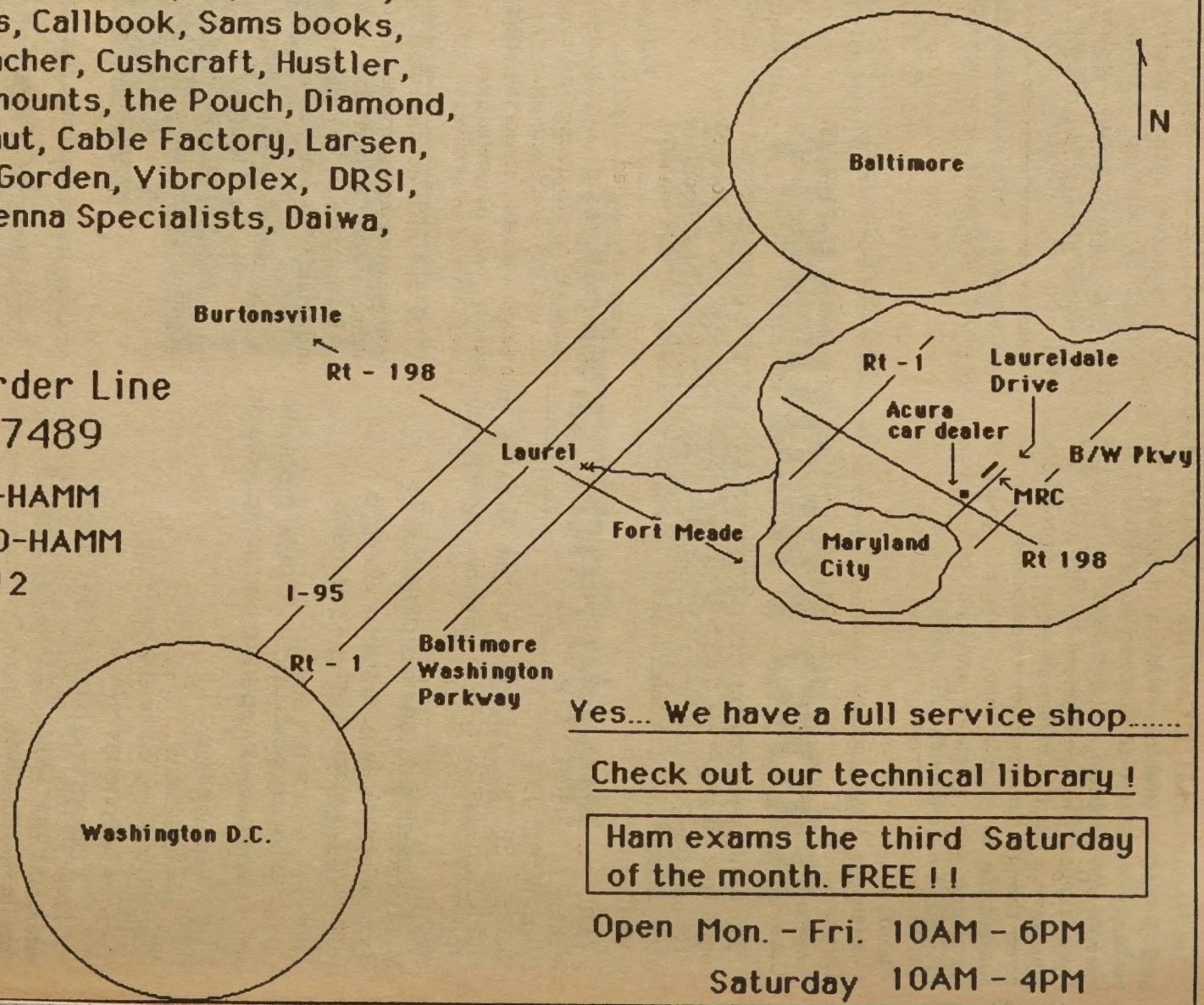

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American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

Radio spectrum's 'Value' Emphasized

IARU observers arrived safely in Torremolinos, Spain for the World Administrative Radio Conference (WARC-92) which began February 3. Opening remarks to the conference were made by Spain's Queen Sofia, the Wife of King Juan Carlos - EAØJC.

The Conference chairman, vice chairmen, and committee officers were selected. A number of international organizations, including the IARU, were invited to participate in an advisory capacity.

IARU observers present were President Richard L. Baldwin - W1RU; Secretary Larry E. Price - W4RA; Region 1 Vice Chairman Wojciech Nietyksza - SP5FM; Region 1 Secretary John Allaway - G3FKM; Region 2 Secretary Thomas B.J. Atkins - VE3CDM; Region 3 Chairman David H. Rankin - 9V1RH; and David Sumner - K1ZZ, and Daniel M. Bergeron - KB4IYK, of the International Secretariat. A large number of other Radio Amateurs are members of national delegations.

The Spanish PTT granted blanket permission for visiting Radio Amateurs from countries with a reciprocal operating agreement with Spain to operate, using their own call sign/EA7. Amateurs from other countries may use the special station installed by URE, the Spanish Amateur organization, at the conference site in Torremolinos (EH7WRC).

ITU Secretary-General Pekka Tarjanne addressed the conference, first thanking Spain for its hospitality in hosting the conference. Tarjanne noted that the conference brings 1,000 official participants from around the world, and called the new century just eight years away the "Century of Telecommunications."

Tarjanne noted that the limits of frequency spectrum had been recognized as early as the first international radio treaty, signed in 1906 in Berlin, and said "We all now look to the Voluntary Group of Experts [separate from the WARC] on the simplification of the radio regulations for creative new solutions to our existing cumbersome international spectrum management arrangements."

"The work of the Voluntary Group of Experts responsible for studying the allocation and improved use of the radio frequency spectrum and simplification of the radio regulations is closely related to the work that is going to be done in this (conference) over the next few weeks," Tarjanne said.

Tarjanne called the frequency spectrum an "important economic resource" and noted proposals for frequency auctions and user fee systems. "At least one country has introduced a market system for certain bands and services which, in its own case, encounter little international interference problems," he said.

"So far, little consideration has been given as to whether or how a market or fee system might be helpful on an international scale. It will be interesting to see the results of national studies and trials," Tarjanne said.

The secretary-general also reminded the conference that it would "consider the appropriate bands for satellite broadcasting of high-definition television and digital sound broadcasting," and that satellite relay of mobile communications on land, sea, and in the air also would be important conference issues.

Noting that just four weeks were available to the conferees, Tarjanne gave them their marching orders. "Let us roll up our sleeves, then, and get down to work," he concluded.

Committee 4 of the conference is concerned with frequency allocation and is divided into working groups to deal with frequencies below 137 MHz (WG4A) between 137 Mhz and 3 GHz (WG4B); and above 3 GHz (WG4C). Most of the activity of interest to Amateurs thus far has taken place in WG4A. (Continued)

Strong positions are being staked out by administrations in developing countries, mainly in Africa and Latin America -- but including Australia and New Zealand as well -- to protect the Fixed Service from HF broadcasting expansion, especially below 10 MHz. On the other hand, a number of administrations seek more spectrum for HF BC, mainly those from Europe, Asia, and the USA.

Mexico Takes the Lead.

Mexico is taking the lead for Latin American delegates wanting to defend both Fixed and Mobile as well as the Amateur Service. Italy is the spokesman for the countries of CEPT who have adopted a European Common Position on the issue, which favors HFBC expansion, harmonization of the 7 Mhz allocation with a 200 kHz worldwide allocation for the Amateur Service, and no other impact on the Amateur Service.

(The IARU position is that the Amateur Service should not be required to relinquish any spectrum in Region 2, where the Amateur band is already 300 kHz, since the Amateur Service has a worldwide requirement for 300 kHz in this band.)

A set of principles ("guidelines") for WG4A designed to be of help in selecting tentative bands for HFBC expansion included the avoidance of bands allocated to the Amateur Service. A number of administrations objected to giving the Amateur Service a preferred status, while the USA, Italy (on behalf of itself and other CEPT countries), China, Pakistan, and the United Kingdom spoke in defense of the Amateur Service.

No Change Seen in 40-Meter Band.

Amateurs worldwide apparently will experience no change in their 40-meter band as a result of the 1992 World Administrative Radio Conference. The issue of high frequency broadcasting expansion (at the possible expense of Amateur bands below 10 MHz) reached a climax on February 21, the end of the third week of the conference.

The apparent conclusion of HF broadcasting deliberations will result in less broadcasting expansion in the important bands below 10 MHz than had been sought.

The 40-meter plan was similar to what the U.S. proposed at the 1979 WARC. The U.S. eventually settled for the status quo when there was insufficient support for the proposal in other countries. In fact, at WARC-79 the Amateur Service held onto its Region 2 allocation of 7100 to 7300 kHz by only a slender thread.

The Federal Communications Commission, in formulating its 1992 WARC position, had rejected a proposal for the expansion of HF broadcasting at the expense of the Amateur 80 and 40 meter bands, saying: "We agree with the ARRL regarding the importance of these bands and believe that the impact of the loss of these bands on the Amateur community would be severe, greatly limiting their ability to provide reliable international emergency and disaster communications."

While the position of **no change** is somewhat disappointing to the IARU team, which had hoped for some improvement of the Amateur position in Regions 1 and 3 without reducing the allocation in Region 2, given the enormous pressures for both the Broadcasting and the Fixed Services Amateurs must consider it to be a great victory if they are able to emerge from the conference unscathed at 7 MHz.

According to IARU observers, it's a testimony to the preparatory work done on our behalf in so many countries that the conference has so far not considered solving the broadcasting problem at the expense of Amateurs.

Another Astronaut Qualifies for License.

NASA astronaut Kathy Sullivan is now N5YYV. Sullivan, a geologist and STS-45 mission specialist, plans to join N5WQC, N5WQW and ON1AFD operating from the space shuttle. She will be the second FCC licensed YL to operate from space.

This is Dr. Sullivan's third trip into space, having served as mission specialist on STS-31 in 1984 and on STS-41 in 1990. She also was the first U.S. woman to perform an extravehicular activity, EVA, in space to demonstrate the feasibility of actual satellite refueling. Kathy is a private pilot rated in powered and glider aircraft. The STS-45 launch is scheduled for March 23. (Thanks to Fred Maia - W5YI for this story)

ARRL Novice Petition.

The ARRL has filed a petition with the FCC for rule making to require that all novice class Amateur Radio license examinations be administered under the current volunteer examiner program. The petition suggests that such a requirement would provide smoother and quicker processing of new novice licenses and would help to maintain the integrity of the examination process for the entire range of Amateur examinations from novice through Amateur extra class. The novice examination, presently administered by two general class or higher licensees who are not necessarily certified volunteer examiners, was not included in the original volunteer examiner program begun in 1984 to avoid overburdening the new program and because a volunteer examiner system for novice examinations already was in place.

IARU Korea Project.

The IARU will participate in a project to establish Amateur Radio in the Democratic People's Republic of Korea scheduled to begin in May, 1992. Several IARU national societies have offered their support to the project, which is based on preliminary discussions held in Pyongyang earlier this year, where the authorities of the DPRK indicated their positive attitude toward it. The project group is led by Dr. Seppo Sisatto - OH1VR, and the coordinator is IARU President Richard L. Baldwin - W1RU, both veterans of the 1991 Albania project team. The announcement was made in Torremolinos, Spain, during the 1992 World Administrative Radio Conference.

Ham Radio Drama.

The long awaited Reader's Digest story about Ned Raub - W1RAN and Seth Keo - XU1SS, has now appeared. Title: **Rescue by Radio,** by Mel White (March 1992 issue). The story recounts W1RAN's efforts to free Cambodian ham Piseth Keo from a refugee camp on the Thai-Cambodian border and reunite him with his family. Amateur radio played a pivotal role in the effort.

Briefs:

According to the FCC, budget considerations will preclude the Commission's Field Operations Bureau from handling many RFI complaints and problems. The FOB must give priority to safety of life programs, a senior Commission official told the ARRL, in consideration of funds available. Such programs include cable television system leakage on aviation communications channels, tower lighting enforcement, and shipboard inspections.

Other cutbacks likely will include FCC involvement in ham-to-ham interference complaints and interference to amateurs from noise sources such as arc welders, other industrial equipment, and the like.

Amateurs themselves will have to shoulder additional responsibility in dealing with these matters, the official said.

Here's a new address for all Amateur license applications and modifications: Federal Communications Commission, 1270 Fairfield Road, Gettysburg, PA 17325-7245.

The round-the-world by balloon EARTHWINDS flight was holding at presstime due to weather but may be airborne when you read this. Pilot Larry Newman - KB7JGM plans Amateur Radio beacons during the flight. A number of schools were ready to monitor the flight's progress on 28.303 kHz. Tape recorded flight information is available from the EARTHWINDS hotline, 216-796-8334. The ESPN cable television network still plans live coverage of the launch as well as updates throughout the flight, which is expected to last 11 to 22 days.

Soviet cosmonaut Sergei Krikalev- U5MIR was profiled in a Wall Street Journal page-one story on February 5, and although the story concentrates on Krikalev's (and other cosmonauts') loneliness in space, Amateur Radio isn't mentioned.

Krikalev, in space for eight months, was "dying to come home to be with his wife and two-year-old daughter," but politics, and the scarcity of funds for space activity have confined him to what cosmonauts call "the tin can" for a while longer.

The FCC on January 16, 1992, amended its rules to implement the Global Maritime Distress and Safety System. This new system eliminates manual Morse code for international distress communications in favor of digital and satellite techniques.

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Public Service Report

Hank Black - N3ESR
(301) 340-8595

Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month.

Deadline for receipt of material is the third of the month.

FEMA CONDUCTS REGION WIDE EXERCISE

The Federal Emergency Management Agency (FEMA) sponsored a region wide exercise in the states of West Virginia, Virginia, Delaware, Pennsylvania, Maryland and the District of Columbia. In addition, several federal agencies and private organizations are involved in this three-week long exercise which began on March 2nd.

The objectives of the exercise were developed by a regional exercise planning group so as to tailor the over all exercise objectives to individual states and local jurisdictions. The regional objectives and others identified by local emergency managers include: 1) evaluation of the direction and control function, 2) testing of the emergency communications equipment and procedures, 3) evaluation of the alert and notification procedures, 4) evaluation of the ability to use weather advisories in making decisions regarding emergency functions including those of population protection, 5) evaluation of procedure adequacy for facilities, equipment and personnel for congregate care evacuees, 6) evaluation of preliminary damage assessment capabilities and report summarizations, 7) evaluation of assistance requests 8) evaluation of resource management at state and local levels, and 9) evaluation of transportation and access controls.

Phase One of the exercise involved the dissemination of weather advisories on the storm's movement towards the East Coast during March 2nd through the 15th. Phase Two of the exercise (March 16-20) involved the storm making landfall. Active exercise participation by local jurisdictions began at this point and the FEMA Regional Operations Center and State EOC's were partially activated during the hours of 0800 to 1600 daily. On Wednesday, March 18th, all State EOC's went fully operational.

Federal agencies participating were the Federal Emergency Management Agency, the Department of Transportation, The National Communications System, the U.S. Army Corps of Engineers, the U.S. Department of Agriculture, the General Services Administration, the Department of Health and Human Services, the Department of Defense, the Environmental Protection Agency, the Department of Energy, the Civil Air Patrol, the U.S. Coast Guard, and the National Oceanic and Atmospheric Administration - National Weather Service Weather Service Forecast Offices in FEMA Region III.

State Agencies involved varied state to state but generally involved most all agencies. In the emergency management arena, most local jurisdictions participated in each of the FEMA Region III states including the Radio Amateur Civil Emergency Service (RACES) for those government entities.

Private organizations that participated were the American Red Cross, the various local utility companies, and the American Radio Relay League's Amateur Radio Emergency Services (ARES) groups in the FEMA Region III states.

T-MARC COORDINATION ACTIVITIES

The T-MARC Frequency Coordinating Committee approved permanent coordination of the 146.940 MHz repeater for the F.B.I. ARC which has been operating on the builder's channel at Lorton, VA.

After several months of operation on a temporary frequency, the Cecil County Amateur Radio Repeater Association has been permanently coordinated onto 145.190 MHz at Elkton, Maryland using coded access.

A proposed 147.195 MHz repeater has been coordinated to the Southern Patuxent A.R.C. at Leonardtown in Southern Maryland.

A proposed new 145.210 MHz repeater has been coordinated to the Laurel Hill Repeater Association, on Blue Mountain, near Front Royal, Virginia.

KC3AM has coordinated a proposed new ATV repeater in Northern Delaware, using 439.25 MHz for the input, and both 421.25 and 923.25 MHz for the outputs. Antennas will use horizontal polarization.

The Columbia A.R.A.'s 147.390 MHz repeater was re-coordinated to its new location in Ellicott City, Maryland while it 223.920 MHz repeater was re-coordinated from its Ellicott City location to a new location near Columbia, Maryland.

A new 224.480 MHz repeater was coordinated to N3HIA at east Baltimore.

For information regarding frequency coordination, contact Gary Hendrickson W3DTN, 1419 Larch Road, Severn, Maryland 21144. The T-MARC Frequency Coordinating Committee usually meets on the last Monday of the Month at 7:30 p.m. at various locations through out the T-MARC area. For additional information on meeting locations, contact Hank Black N3ESR at (301) 340-8595.

SKYWARN ACTIVITIES

Skywarn is extremely pleased to announce that the new Skywarn Amateur Radio Station has been placed in service at the National Weather Service Forecast Office, Washington DC. (The station is actually located at Sterling, Virginia.) The station's principal sponsor was the Foundation for Amateur Radio, Inc. The station is expected to be used extensively during the FEMA Region 3 Integrated Exercise, "Hurricane Zelda." Details of SKYWARN's participation in Zelda and photos and description of the new SKYWARN Amateur Radio station will appear in the May Auto-Call.

PUBLIC SERVICE CALENDAR

Mar 28	Virginia Special Olympics Spring Games 7:30 a.m. to 5 p.m. Various locations in Fairfax, County. Contact Ed Ober - KC4EFJ (703) 591-0422
Apr 5	The Super Cities Walk (MS Society) 20K (12 Mile) Walk 7:30 a.m. to 3 p.m. Various locations Maryland & Virginia. Contact Hank Black - N3ESR (301) 340-8595
Apr 11	National Capital ARES Council Meeting 10 a.m. Montgomery County Contact Hank Black - N3ESR (301) 340-8595.
May 2	Dogwood Half-One Hundred. Contact John Anastas - KJ4EK (703) 667-6046 or Bob Lewis - N4SCK (703) 830-7325
May 2 & 3	American Lung Association 100 Mile Bike Ride. Contact Bob Lewis - N4SCK (703) 830-7325 or Ed Ober - KC4EFJ (703) 591-0422
May 16 & 17	MS 150K Bike-a-thon. Contact Dave Rogers - N4JGQ (703) 237-5465 or Bob Lewis - N4SCK (703) 830-7325

ARES/RACES Leadership for Virginia

Virginia Section EC &		
Virginia RACES Coordinator	Steven P. Czaikowski, WB4ZTR	(703) 869-3674
Virginia Deputy RACES Coordinator	Henry Hassell, K4LMY	(804) 561-3060
Virginia RACES EOC Radio Officer	Earl Bishop, N4EXQ	(804) 270-7564
Northern Shenandoah District #1		
DEC	John Anastas, KJ4EK	(703) 667-6046
Clarke County EC	(Vacant)	
Frederick County EC	Bob Cooley, N4VJK	(703) 662-5312
Page County EC	George McCulloch, WA3WIP	(703) 743-3532
Shenandoah County EC	(Vacant)	
Warren County EC	(Vacant)	
Winchester City EC	(Vacant)	
National Capital District #2		
DEC	Bob Lewis, N4SCK,	(703) 830-3495
Alexandria EC	Rich Adamy, A4GFY	(703) 931-2917
Arligton EC	Rick Bunn, N4ASX	(703) 685-7765
Fairfax EC	Ed Ober, KC4EFJ	(703) 591-0422
Fauquier County EC	Bob Taylor, KC4CVG	(703) 439-2786
Loudoun County EC	Bill Roemer, K3CUU	(703) 554-2523
Military District of Wash.	Dick Lum, NH6E	(703) 938-9215
Prince William County EC	Harry Vorhauer, W4PVA	(703) 368-6050
SKYWARN Net Manager	Dan Gropper, KC4OCG	(703) 281-2358
Northern Piedmont District #3		
DEC	Morris Jones, NM4R	(804) 293-5203
Greene & Albemarle County EC	Hein Hvatum, N4FWA	(804) 977-4438
Fluvanna & Louisa County EC	Ed Lang, KC4YLX	(804) 295-5318
Upper Rappahannock District #4		
DEC	Jim Brodhead, KA4ERP	(703) 972-2566
Culpeper County EC	Belmont Wroman, WD4OKD	(703) 399-1210
Madison County EC	Tony Deivert, W4MFX	(703) 948-6327
Orange, Rappahannock Co. EC	Malcolm Gray, KK4GZ	(703) 854-4342
Spotsylvania County EC	Jim Brodhead, KA4ERP	(703) 972-2566
Stafford, Caroline, King George EC	John Cavanagh, KB4XF	(703) 373-7076
Rappahannock District #5		
DEC	Verlan Hall, AA4HQ	(804) 776-9353
Lacaster County EC	Henry Owen, AC4AC	(804) 438-6943
Middlesex County EC	Verlan Hall, AA4HQ	(804) 776-9353
Northumberland County EC	Bill Morhard, KA4DEO	(804) 580-5467
Virginia Capital District #6 are:		
DEC	VACANT - (Contact WB4ZTR if interested)	
Chesterfield County EC	Joe Gagliano, KJ4RG	(804) 748-6985
City of Richmond EC	Bill Kidd, KA4UND	(804) 282-1207
Dinwiddie County EC	(VACANT)	
Goochland County EC	Glenn Swanson, KB1GW	(804) 556-3357
Hanover County EC	(VACANT)	
Henrico County EC	Dennis Wyman, KB4DCE	(804) 737-8386
Prince George County EC	Doug Edwards, N4KDE	(804) 541-3528
King & Queen County EC	(VACANT)	
King William County EC	(VACANT)	
New Kent County EC	Ray Campbell, WA4OVW	(804) 566-0681
Powhatan County EC	(VACANT)	
Charles City County EC	Gil Frey, N4JST	(804) 829-2240
SKYWARN Net Manager	Billy Walton, KC4ETD	(804) 795-2393

ARES/RACES Leadership - Continued

Blue Ridge District #15
DEC ..... Rusty Bowman, N4YET ..... (703) 833-5565
Augusta County EC ..... Doug Edwards, KA4NWK ..... (703) 942-3787
Rockbridge County EC ..... Dan Welsh, KI4ZR ..... (703) 463-7800
Rockingham County EC ..... Zane ("Rusty") Bowman, N4YET (703) 833-5565

Official Emergency Stations in Virginia Districts 1, 2, 3, 4, 5, & 15
Northern Shenandoah District #1 ..... Rick Fravel, N4FNT
National Capital District #2 ..... Dick Lum, NH6E
..... Geri Sweeney, N4GHI
Northern Piedmont District #3 ..... (Vacant)
Upper Rappahannock District #4 ..... David ("Spike") Boyd, K9MX
..... Jim Brodhead, KA4ERP
Rappahannock District #5 ..... (Vacant)
Virginia Capital District #6
..... Earl Bishop, N4EXQ
..... Joyce Dolby, WB4PNY
..... Ralph Fetty, N4EHJ
..... Gil Frey, N4JST
Blue Ridge District #15 ..... John Scheufel, WA4DTE

The above information is believed to be accurate through 12/28/91
Please advise Hank Black - N3ESR of any changes. Phone (301) 340-8595

Local Area Traffic & Training Nets

DAILY
0830 ..... HIT & BOUNCE NET 7039 CW
1300 ..... * .. VA TRAFFIC NET 3907 SSB
1800 ..... * .. MD EMERGENCY PHONE NET (MEPN) 3920
" * ..... VA SIDEBAND NET 3947
1830 ..... * .. VA TRAFFIC TRAINING NET 3685 CW
1900 ..... * .. VA NET (EARLY) 3680 CW
" * ..... MARYLAND-DELAWARE-DC (MDD) TRAFFIC NET 3643 CW
1915 ..... * .. SHENANDOAH VALLEY EMERGENCY NET 146.22/82
1930 ..... * .. MD SLOW NET 3717 CW
" ..... * .. NORTHERN VIRGINIA TRAFFIC NET 147.30/90
2100 ..... VIRGINIA PHONE NET 3947
2100 ..... * .. SOUTH TIDEWATER ARES 146.97
2100 ..... VIENNA WIRELESS SOCIETY POW-WOW NET 28.4 SSB
2200 ..... * .. MARYLAND-DELAWARE-DC TRAFFIC (MDD) NET 3643 CW
" * ..... VA NET (LATE) 3680 CW
2230 ..... * .. VIRGINIA LATE NET 3947

* ARRL Sponsored Nets

Special Events

Mar 28	Virginia Special Olympics Spring Games. Various locations in Fairfax County
Apr 4-5	MADRAS Special Event Station, "Source of the Potomac." (See Page 40)
May 9-10	Founding of Fairfax County, VA. Members of the Mount Vernon Amateur Radio Club will operate 1400–2100Z May 9 and 10 from locations on the original Mount Vernon estate of George Washington to celebrate the 250th anniversary of the founding of Fairfax County, Virginia. Contact Steve Schneider - SB4EEA.
May 8	Florida Cracker Trail. The Fort Pierce, Florida Amateur Radio Association will commemorate the 5th annual Trail Ride of the Florida Cracker Trail Association. For information contact Bill Shisler - W3DHN, Fort Pierce, FL 34951.
May 16	Armed Forces Day special operation from submarine *USS Torsk*
Jun 13-14	Special Event recognizing Golden Anniversary of Vint Hill Farms

QTC

The story of a sea-going "Sparks"
By Ray Redwood, KA5HCX

"Sparks" - the lone radio officer on ships - is fading away with the 20th century. This book - **QTC** - (I have a message for you) is a nostalgic salute to him. His SOS's saved a million lives.

Fellow "Sparks" enthusiastically applaud this book. "Outstanding" (Kemp Richter - K7UQH. "Complaint – can't put the book down!" (Ken Johnson - W6NKE). Best Book ever written about marine operator" (Doug Stivison - NR1A) Reviewers too: "Nostalgic spirit surrounds tales told" (*Popular Electronics*), "Fascinating book" (*Radio Bygones, UK*), "You just have to see QTC" (*Amateur Radio Action, Australia*"

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Dayton Hamvention
April 24, 25, 26

Southwest Ohio Chapter #9 of the **Quarter Century Wireless Association** announces its Annual QCWA Banquet to be held on Friday evening, April 24, (the first evening of the Dayton Hamvention.) Neil's Heritage House has an outstanding meal for us. C.O.D. bar at 6:30 p.m., the banquet starts at 7:30.

Speaker
George Wilson - W4OYI
The brand new President of ARRL

Tickets $16 each
Reservations Required
Come join the fun. Membership in QCWA is not required to attend.
For tickets or information contact:
Bob Dingle - KA4LAU
1117 Big Hill Road
Zip 45429 Telephone (513) 299-7114

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MEMORIAL DAY HAMFEST SUNDAY, MAY 24, 1992

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TIME: 8 a.m. until 3 p.m. -- premises MUST be cleared by 5 p.m.

TALK-IN on WA3DZD/Repeater (146.16/146.76, 223.16/224.76, and 449.0/444.0).

Plenty of good food and drink will be available.

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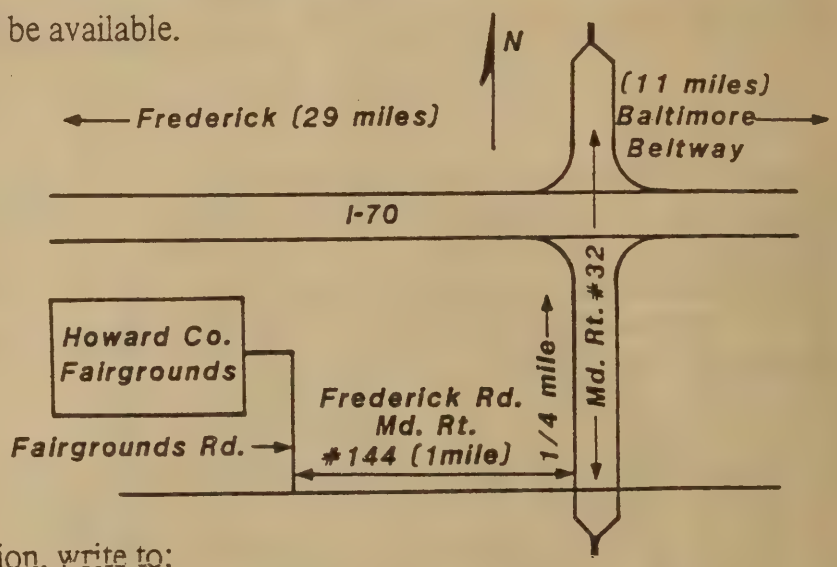
Only PAID table reservations accepted. If you haven't paid, you don't have reservations.



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301-249-6147

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License examinations: Walk-ins accepted -- *MUST* have a completed FCC Form 610, a copy of existing license, and proof of identification (driver's license, et cetera). Registration: 8:30 a.m. Exams will start: 9:00 a.m. -- NO APPLICATION FEE! Contact: Les McClure (W3GXT), 516 Gwynnwest Road, Reisterstown, MD 21136 (410-833-8667).

All proceeds will be used for improvements to the Club's WA3DZD repeater system.

Commercial vendors must have proper tax/license certificates available.

All items offered for sale must be Amateur Radio related.

DX DX DX

John Kanode, N4MM

THE RAREST DXCC COUNTRY – WILL IT HAPPEN?

Project launched to encourage Amateur Radio in the Democratic People's Republic of Korea. This was the title of a press release issued by ARRL HQ on February 27, 1992.

It was announced today that the International Amateur Radio Union (IARU) will participate in an International Project aimed at establishing Amateur Radio in the Democratic People's Republic of Korea (DPRK). The announcement was made in Torremolinos, Spain, site of the 1992 World Administrative Radio Conference.

The project is based on preliminary discussions held in Pyongyang earlier this year, where the authorities of the DPRK indicated their positive attitude toward such an initiative.

Several Amateur Radio groups and IARU member-societies are offering their cooperation and support. The Project group is led by Dr. Seppo Sisatto - OH1VR. The coordinator for IARU is IARU President Richard L. Baldwin - W1RU. Detailed discussions are underway and the Project is tentatively scheduled for May of 1992.

-+-+-+-+-+-+-+-+-+-+-

It looks like this project might be similar to the recent Albanian project. The main purpose is to get Amateur Radio up and running in the DPRK. This is not a DXpedition only. If it is done as well as the Albanian project, P5/DPRK stations will be as easy to find as a ZA is now. I see one or two ZA's put out each day on the local PacketCluster. It would be great to see the same for P5 stations in a year or less.

DX CONTESTS FOR APRIL

April 5-6	SP DX Contest, CW
April 18-19	Holyland DX Contest, Phone and CW
April 18-19	SARTG World Wide AMTOR Contest

UPCOMING DXPEDITIONS

VP8SSI	South Sandwich Is.	Late March/Early April
FR5ZU/T	Tromelin	March 25 - April 7

DXPO-92. The National Capitol DX Association will host DXPO-92 on October 10 and 11 at the College Park Holiday Inn in College Park, Maryland. There will be seminars and forums for everyone from new DXers to the seasoned Honor Roll DXers. To be added to the mailing for more info, send your name and address to Stuart Meyer - W2GHK, 2417 Newton Street, Vienna, VA 22181, 703-281-3806.

ROANOKE MAYFEST '92

HAMFEST AND COMPUTER SHOW

SATURDAY, MAY 16, 1992

LANCERLOT SPORTS COMPLEX
VINTON, VA
AN APPROVED ARRL EVENT
PRESENTED BY
THE ROANOKE VALLEY AMATEUR RADIO CLUB

GRAND PRIZE: $600.00
SECOND PRIZE: $300.00
PREREGISTRATION PRIZE: $100.00

TALK-IN ON 146.985 (-600) & 442.50+

TICKET INFORMATION
General Admission– Preregistration $5.00
At the Door $6.00

COMMERCIAL DEALER SPACES
1 - 8 ft. table (includes 2 chairs) $20.00
Each additional table $20.00

Non-Commercial exhibitor must also purchase General Admission Ticket.

INSIDE FLEAMARKET TABLES
1 - 8 ft. table (includes 1 chair) $10.00

PRICE FOR ELECTRICAL HOOKUP $15.00

OUTSIDE TAILGATE SPACE $5.00

PREREGISTRATION DEADLINE MAY 9, 1992.
PLEASE SEND S.A.S.E.

DEALER SET-UP: Doors open for set-up Friday, May 15th, 4-10 p.m. and Saturday, May 16th at 6 a.m.

WRITTEN CORRESPONDENCE: Mayfest '92, P. O. Box 2002, Roanoke, Virginia 24009

FOR DEALER INFORMATION contact:
Charlie Nichols, KB4WSB Home (703) 342-8562
Work (703) 345-1404

FOR FLEA MARKET INFORMATION contact:
Doug Moore, K4WVS Home (703) 343-6794
Work (703) 342-8513
FAX (703) 342-1250

If you have any questions, concerns or need more detailed information, please do not hesitate to contact us.

SHOW HOURS: 9:00 A.M.- 4:00 P.M.

1992 HAMFEST PREREGISTRATION FORM

Mail check, S.A.S.E. and this completed form to:
R.V.A.R.C., P. O. Box 2002, Roanoke, Virginia 24009.
WE MUST RECEIVE THIS BY MAY 9, 1992.

NAME:_____ CALL:_____

ADDRESS:_____ PHONE:_____

CITY:_____ STATE:_____ ZIP:_____

I would like _____ Hamfest Tickets @ $5.00 each . . . . . $ _____

Reserve _____ Commercial Dealer Spaces @ $20.00 each . . . . . $ _____
(1 - 8 ft. table, includes 2 chairs)

Reserve _____ Each Additional Dealer Table @ $20.00 each . . . . . $ _____

Reserve _____ Inside Fleamarket Tables @ $10.00 . . . . . $ _____
(1 - 8 ft. table, includes 1 chair)

Reserve _____ Outside Tailgate Space @ $5.00 each . . . . . $ _____

Reserve _____ Electricity Hookup @ $15.00 . . . . . $ _____

Make checks payable to R.V.A.R.C. **TOTAL $** _____

Elmer's Corner

By Scott Schaefer - WR4S

This column is devoted to guiding new Amateurs through some of the common questions and problems encountered by all of us in our hamming endeavors. Send us your questions and we will try to provide the answers. Any input that might be helpful to newcomers is also most welcome.

Write or phone me at 107 Melody Lane S.E., Vienna, VA 22180 (703) 255-7264

Last month I left you hanging with a prepared end of coax and a PL259 waiting to be soldered on. In the meantime, I did a little research on soldering guns and irons and will pass that info on so we can progress to the next step.

For different applications, most hams will have a couple of soldering irons, a 25 watt for working on pc boards and a higher wattage iron or gun for jobs requiring more heat. If you don't plan on doing any pc board projects, a small iron or gun (60–100 watt) is the best first investment for doing meat and potatoes work - like soldering on PL259s. The Weller WP-60P ($40) or the 7200PK soldering gun (about $20) are excellent choices. To work on smaller projects like mike connectors, a 25 watt "pencil" will work a little better. The best of both worlds is a variable temperature "soldering station" (about $100) a hefty investment unless you're sure you will get the use out of it, HI.

The neatest gadget I have run into is called the "PYROPEN," also by Weller, that operates on butane (cigarette lighter type) giving you the luxury of not needing AC at the soldering site. Again, this is a relatively expensive purchase ($60) but when factored over your hamming career, it is something to think about. The PYROPEN is also adjustable so the proper heat can be used, depending on the job. Hechinger's carries a selection of irons and guns at reasonable prices or you can order by mail from Amateur Electronic Supply, using the model numbers I mentioned earlier.

So, let's assume you have your trusty soldering weapon heated up and ready to go. The first thing to do is to clean and "TIN" the tip by wiping the tip off on a damp sponge and flowing enough solder to cover the first ¼ inch or so of the tip. This will increase the efficiency of the heat transfer and increase the life of the tip. If there is too much build-up on the tip, a light sanding or filing down to bare copper is necessary, then do the tinning.

Speaking of solder, the only type to consider at this time is referred to as 60/40, a mixture of 60% tin and 40% lead. Always, I repeat, ALWAYS use "ROSIN CORE" solder for your electronic projects, **NOT** "ACID CORE," the type used in plumbing applications. The ROSIN is what is called a FLUX which, during the soldering process, suspends oxides, floating them to the top when the solder is in its liquid state and helping to keep surface oxidation to a minimum.

Let's melt a little solder. Take a short length of coax and strip it down so that a few inches of the center conductor are exposed for you to practice on. Take your soldering weapon and touch the tip with solder (to see if it is hot enough), wipe the solder off on a wet sponge and apply the tip firmly to the test wire about a half-inch from the end. When the temperature of the wire rises to the required level (for 60/40 solder that is around 361° F.) the solder will start to melt when it is touched to the wire. If you leave the tip in contact with the wire after some solder has been applied, you will notice that the solder will flow throughout the strands of the center conductor. Try this a few times and you will quickly get the hang of it.

You are also learning one of the "tricks of the soldering trade" by doing this. I referred to "TINNING" earlier and this is also called "TINNING," but in this case you are "TINNING" the "WORK" instead of the soldering tip. By "TINNING" the wire before final soldering, the "WORK" heats up much quicker when time for the final assembly comes around. For those "experienced" hams out there that haven't done this before, try it, you'll like it!!

It appears I've done it again; left you hanging with your PL259 unsoldered. Hopefully, I've given you something to think about until next month when, maybe, we will get our original project completed.

Scott - WR4S

Training Classes

Robert Armstrong, WA4SQL
44 South French Street, Alexandria, VA 22304
Phone (703) 751-2294

General Class Training Course, Herndon, VA, Starting March 28. Sponsored by the Herndon Repeater Group. A free 6-week course (code and theory) on Satuday mornings from 9:00 a.m. until 12:30 p.m. from March 28 to May 2. Applicants must have a Technician Plus license and copy of the newly updated ARRL General Class license manual. The course will be limited to 35 students. Contact Mike Weber - WB8RDN (703) 450-2304.

Novice/Technician Classes, Camp Springs, MD, Starting April 6. Sponsored by Southern Maryland Amateur Radio Club. Classes will be held at 7:00 p.m. on Mondays for 12 weeks. For further information call Vic Curtis - WA3YUV at (301) 888-1388 or Ray Simpson - WI3A at (301) 894-0606.

Math Seminars, Herndon, VA, April 11 and April 18. Sponsored by Herndon Repeater Group. HRG will sponsor two one-day Math seminars to review mathematics skills needed for the Advanced and Extra Class exams. The Advanced seminar will be held on Saturday April 11 from 12:30 p.m. to 2:30 p.m. The Extra seminar will be on Saturday April 18 from 12:30 p.m. to 2:30 p.m. These seminars are free and are timed to meet the May 9 Examination opportunity. Contact Mike Weber - WB8RDN (703) 450-2304.

Novice through upgrades, Sterling Park, Starting in the spring. Dates and times will be dependent upon need and availability, and coordination within the local area. If interested call Mark Johnson - WS3N (703) 430-3804.

Novice and Technician Training Classes, Herndon, VA. Starting September 12, 1992. Sponsored by the Herndon Repeater Group. Classes are free but will be limited to 35 people. For information Contact Mike Weber - WB8RDN at (703) 450-2304 between 7:00 and 9:00 p.m.

Novice Training Classes, Baltimore, MD. Sponsored by BRATS. Classes are being held on an 0n-going basis every Fridey evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free; Materials (which you can keep) consist of a book and tape and cost $19.90. For registration or information, contact Al Dixon - N3HOE (301) 833-5735.

Novice Training Classes, N.W. Washington, DC. Sponsored by MADRAS. For more information contact Larry Zeicheck - N3GKZ (301) 984-6112.

VIRGINIA TRAFFIC TRAINING NET - 3685 kHz 6:30 p.m. daily. 5 - 8 wpm.

SLOW CODE PRACTICE NET, 28.250 MHz 7:00 to 8:00 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc.

Please keep Auto-Call advised of Training Classes

FOUNDATION FOR AMATEUR RADIO

Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS

NOTICE: If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

Mar 31 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration
Contact: John Kohl, KO4A (410) 757-8148

Apr 2 Southern Patuxent ARC (California, MD) (ARRL VEC) Walk-in
Contact: Dwayne Kincaid, WD8OYG (410) 586-2177

Apr 4 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC Walk-in
Contact: Andrew Swanson, WJ4X (804) 253-2811

University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins
Contact: Scott Rosenfeld - NS3I (301) 206-9921

Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241

Apr 11 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083

Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510

Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)

Apr 18 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Apr 26 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration
Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)

Apr 29 Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Pre-registration
Contact: Jerry Gavin, NU3D (410) 761-1423

Timonium Hamfest (Timonium, MD) Pre-Registration Requested
Contact: Les McClure, W3GXT (410-833-8667

May 1 Southern Maryland ARC (Temple Hills, MD) (Laurel VEC)
Contact: Ray Simpson, WI3A (301) 894-0606

May 2 Portsmouth ARC May (Portsmouth, VA) (ARRL VEC)
Contact: Art Thiemens, AA4AT (804) 484-2857

University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins
Contact: Scott Rosenfeld - NS3I (301) 206-9921

Volunteer Examiner Cooperative - Continued

May 9 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083

Herndon Repeater Group (Herndon, VA) (ARRL VEC) Pre-registration requested
Contact: Mike Weber - WB8RDN (703) 450-2304.

Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510

Richmond, VA (ARRL VEC)
Contact: Rick Cook, AB4U (804) 798-5048

May 12 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration
Contact: John Kohl, KO4A (410) 757-8148

May 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

May 20 Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611

May 24 Maryland FM Association Hamfest (Howard County Fairgrounds) Pre-registration
Contact: Les McClure, W3GXT (410) 833-8667

Jun 6 Virginia Beach ARC (Virginia Beach, VA) (ARRL VEC)
Contact: Ed Robison, WD4GOY (804) 468-0866

Jun 13 Anne Arundel Radio Club (Davidsonville, MD) (LARC VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083

Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510

Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Walk-in
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)

Jun 20 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Jun 22 Southern Maryland ARC (Temple Hills, MD) (Laurel VEC)
Contact: Ray Simpson, WI3A (301) 894-0606

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

NOTE: All examinations require that you submit:
Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.
Check for appropriate examination fee.
Fees of individual VEC may vary.
ARRL VEC Exam fee is $5.40
W5YI VEC Exam fee is $5.40
Laurel VEC Exams, all tests are free.
Mountain VEC Exams, all tests are free

This schedule of examinations appears each month in Auto-Call Magazine
Sponsored by the Foundation for Amateur Radio

SRAM – 040
(Soviet Radio Amateur Movement)
Edited by Dexter Anderson, W4KM

[I expected to be away for several weeks and prepared the following two-part summary translation in advance. The source is an article in an unknown newspaper apparently called "SK." The article is about an outspoken amateur who "did time" on fabricated charges under the old régime. The term "chemistry" ("khimiya") used in the subtitle and throughout the article seems to be criminal slang for a place of confinement. One possibility suggested to me is that it originated with the use of prisoners to construct a chemistry plant.]

"SK" dated 1 June 1991 beginning on page 8:
"THE FINEST HOUR [literally THE STELLAR HOUR] OF SERGEY MATVEYEV,
which was wrapped in two years of 'chemistry'"
by Yevgeniy Chapurin

One evening ten years ago, Jack Gutzeit, W2LZX, heard a Morse-code "SOS" from a place called Arkhangel'sk. The message, addressed to President Reagan, Senator Goldwater, and the president of the IARU, stated that UA1OSM was being shut down for political reasons and requested political asylum.

Jack Gutzeit recognized UA1OSM as the callsign of his old over-the-air friend Sergey Matveyev. "Sergey is having a very bad time of it," he thought.

The contact ended. In the Soviet Union it was already 1 May 1981.

AND MEANWHILE IN ARKHANGEL'SK

Like the whole country, Arkhangel'sk was preparing to greet the First of May. So what if some renegade tried to spoil the holiday spirit by announcing his lack of loyalty to the socialist order? The country has known many such people, both highly-placed and lowly. They all got what they deserved. After all, anti-Soviets are anti-Soviets. The only thing unusual about Matveyev's case was that the request for political asylum was transmitted over the air.

HOW ANTI-SOVIETS ARE MADE

In our society of the '80s, one could be anti-Soviet, but to oneself. From time to time, one could be malicious on the subject of the meager existence in the Country of Soviets, but at home in the kitchen. However, it was better yet to be quiet, keeping the accumulating malice to yourself, in which case you were a well-educated citizen, worthy of building a new society.

Sergey Matveyev now criticizes himself most of all for blabbing, wherever he happened to be, about the party, about socialism, and about the decadent West that was not at all willing to disappear.

"... I was always asking myself why if something better came along in electronics it was always created in the States? Why was it that only in America were marvelous microcircuits made which were picked up by the whole world ... we have heaps of institutes and people who aren't dumb, but we still lag behind in making progress. So the thought came to me, what if socialism were installed everywhere, who would push progress forward?"

That's what the thirty-year-old Matveyev thought then. At that time, what was pardonable for Jupiter was not pardonable for a simple shop steward, much less for a non party member, much less for an amateur entrusted by the state with worldwide radio contacts. Just imagine what slander such an irresponsible citizen could spread about the Country of Soviets!

SRAM–040 - Continued

They didn't like him much in the radio club. "He's a bad person, this Matveyev, he's too selfish. And he speaks ill of the party ... ."

For Sergey, the epic that ended so dramatically for him began in the summer of '80. His friend Slava Vasil'kov was leaving for Franz-Josef-Land and asked Sergey to be his QSL manager.

People act as QSL managers all over the world. Doing so wasn't prohibited at that time here either. However at that time, you understand, things that were not prohibited were by no means always permitted. In '80, the only address in the USSR for foreign radio amateurs was the Central Radio Club in Moscow. All mail from abroad ended up there, was checked, and was then distributed around the country. I'll comment in passing that foreigners considered this absurd and wrong -- but what can you say about the mysterious Russian soul?

When the mail began to go straight to Sergey, the Central Radio Club ordered all relations with foreigners cut off. This wasn't done, so an order was given to the Arkhangel'sk radio school: "Punish Matveyev!"

This order fell on fertile soil. Matveyev had already pretty well "gotten to" the management of the radio school with his "freedom-loving" projects. On various occasions, he had proposed revealing the home addresses of radio amateurs to foreigners (what a nightmare!), made too much of an idea of a non-party amateur radio magazine, demanded that Soviet shortwavers be permitted to join foreign clubs, and described the prohibition against working radio amateurs from Israel as a violation of human rights.

Now, several years later, all of these suggestions are recognized as civilized and correct, and many of the prohibitions are being removed. But that would be several years later, and back then the quasi-military leadership of the DOSAAF radio school was wincing over Matveyev's latest idea and preparing to "give a rebuff" to this foreign element.

The first "attack" came in November 1980. Matveyev was removed as chairman of the club council for delays in sending out QSL cards, despite his explanation that the print shop hadn't printed them in time. Simultaneously, his wife was discharged as chief of the radio club station. This was done hastily and in violation of the basic rules of the labor code.

Matveyev's fellow radio club members urged that as the next step his home station be shut down. They argued that "As long as this renegade has a radio station, he will defile our socialism over the air ..." Shutting his station down turned out not to be that simple. The telecommunication inspectorate checked and didn't find any grounds for closing the station, despite the oblast' DOSAAF committee's categorical order: "Close it. Period!" But the New Year, 1981, was approaching, and in accordance with the instruction all amateurs have to receive permission annually to operate their home stations. [The term "instruction" (instruktsiya) seems often to refer to an unpublished directive on how to proceed in what is considered a sensitive area.]

After four months, the DOSAAF oblast' committee turned Matveyev down, based on there being no application for renewal, and on a negative statement from his place of work. These arguments were poorly disguised, as there <u>was</u> an application, and the statement [from Matveyev's place of work] was <u>positive</u>.

So the station was closed down. But Sergey Matveyev, worn out from four months of knocking on doors, reserved the last word for himself. He went on the air at six twenty on 1 May 1981 with a radio message that stirred up the radio world.

[CONTINUED NEXT MONTH

EDITORIAL

Continued from page 4

It's not easy navigating uncharted territory as we have done. People almost always resist change, and we as a group have embarked on the long journey of change for the better I believe. We now have some new faces and new ideas to look forward to. It will be up to my successor to balance old and new in order to move into the future.

Now on to the fun part, the thank you's. To every officer on the masthead of AUTO-CALL. For their input, patience and hard work. Not only do these people act as trustees for their respective clubs but also as ambassadors for the Foundation, which includes extra work and extra meetings from their individual schedules. Thanks gang! We done good. To the staff of AUTO Call. Advancement of ham radio first and foremost in their collective minds, subscriptions up, expenses in control, quality up both in product and content, I leave with the comforting knowledge that it's in good hands. To the most insane contingent...the Hamfest staff. Here fellow readers is a small band of self-masochists who donate countless manhours of volunteer time to a cause that none of them profit from in any way shape or form by virtue of their personal code of conduct. If our constitution had not labeled us a non-political organization I'd invite George Bush down for the 2nd weekend every September and show him a "point of light" or 2. Or 8 or 9 or 10. For it was at this hamfest that I caught the Ham bug. This is where my heart is. So as I leave as president I will be assuming the chairmanship of F.A.R.FEST starting with 1992. Watch for the changes here also. Here we go again!!!

And finally the best for last. I promised Ethel this wouldn't get out of hand but this is my last chance to do this, besides, what could she do, fire me? To Hugh Turnbull, your input, both positive and negative helped me temper the wisdom of the old guard into the "steel" of the new guard. To Tony Young for helping chart the new direction and your sometimes aggravating attention to detail. To Ethel Smith for protecting me from "foot in mouth disease" these last two years. The only thing I could ever think of to get you for Christmas is a box of blue pencils. To Nancy Drahiem for being there when we needed you, for the hugs, for the pep talk.

To Bob Moore, my elmer, my mentor. The most important thing you taught me was a philosophy of life. "life goes on" Thanks for the quippy humor, and the history lessons. By the way, we were supposed to have lunch that day, your treat. You owe me! And to my dad, W3ELS. Thanks for not giving up on me, for dragging me to the hamfests, always making sure the cw on the rig was loud enough to interfere with my thought process. Thanks.

With all this wordiness off my chest I'll say 73's for now and see you at F.A.R.FEST '92, the only place to be on September 13th.

73's N3GDD

Foundation Meetings

The Foundation for Amateur Radio, Inc. meets at 8:00 p.m. on the second Wednesday of each month.

Visitors are always welcome

Phone (301) 725-5822 for information

The next meeting will be on April 8 in Takoma Park, Maryland
Columbia Union College Science Building Auditorium, Flower Avenue
Talk-in on 147.18

Recognitions

Stuart Meyer - W2GHK has been re-election as Executive Vice President of the Radio Club of America. Fred Link was re-elected President. **Ken Miller - K6IR** was re-elected Director.

Gordon Barnes - KO4HP (KC4OCA) was recently named Ham of the Year for Southwest Florida. Gordon was our very popular weatherman at Channel 9 for many years and is now weathercasting at WEVU in Bonita Springs, Florida.

John Rouse - KA3DBN / VP2EBN of Bowie, Maryland made page 11 of the March issue of QST with a fine picture of him on one of his regular DXpeditions to Anguilla.

Recognize those new Amateurs in your life
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P.O. Box 7612, Falls Church, VA 22046 (703) 536-8469

JOIN HAYMAN

We are looking for former customer service electronic field technicians, teachers, college students, restaurant managers, retail store managers, and real estate sales people to join our firm as:

Trainers, programmers, technicians, and sales agents.

Please apply if you have:

PC-DOS experience
Hardware and application software experience
Good communicating skills
High energy
A desire to work hard (we provide service all day, everyday)
A desire to learn new skills
Good trouble shooting & problem solving skills
A strong interest in technology & business

We have entry level positions open at this time for sales agents, programmers/trainers, and shop/field service representatives. A late model auto is required for much of your time will be spent with customers & prospects.

Background: Hayman Business Systems is a successful medium size company which was started in 1938. We sell and service electronic point-of-sale terminals and computer systems which we have installed throughout the Washington DC / Baltimore / Northern Virginia area. Our customers range in size from the corner carry-out shop to major chains. We are growing and moving to **Laurel, Maryland** before the end of this summer.

Fax or Mail your resume:

HAYMAN BUSINESS SYSTEMS
Mr. Richard Hayman, President
4406 Georgia Ave., NW,
Washington, DC 20011. Fax: 202-723-7760

AMATEUR RADIO NEWS RELEASE

For Immediate Release

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with headquarters in Washington, D.C., plans to administer forty-five (45) scholarships for the academic year 1992 - 1993 to assist licensed Radio Amateurs. The Foundation, composed of fifty local area Amateur Radio Clubs, fully funds five of these scholarships with the income from grants and its annual Hamfest. The remaining forty (40) are administered by the Foundation without cost to the various donors.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from $500 to $2000 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs are encouraged to announce these opportunities at their meetings, on their nets, during training classes, and in their club newsletters.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to May 31, 1992 from:

FAR Scholarships
6903 Rhode Island Avenue
College Park, MD 20740

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purpose of the Amateur Radio Service.

FAR/QCWA

Spring Banquet

For ALL Area Amateurs

Sunday May 10

Martin's Cross Winds

Greenbelt, Maryland

Speaker:
John Simpson
1991 Director of the Secret Service

MAKE YOUR RESERVATIONS EARLY

Table assignments are made in the order in which reservations are received
Early applications take the best seats

Club or Group seating is available
Deadline for Reservations is May 5

ADVANCE RESERVATIONS
$20 per person
($22 at the Door without Reservations)

CASH BAR OPENS AT 6:30 DINNER WILL BE AT 7:30

Make remittance payable to
Foundation For Amateur Radio
Mail reservations to
Tony Young - WA3YLO, 2016 Long Ridge Lane
Bowie, MD 20715 Phone (301) 262-1917

See reverse side of page for registration form and more details

Attention Club Leaders: Be sure your club is represented.

FAR/QCWA

Annual Spring Banquet

For All Area Amateurs

Sunday May 10

Martin's Cross Winds, Greenbelt, Maryland

This is THE Social Event of the Year for the Amateur Community. Don't miss it.

The Martin's Cross Winds is located at 7400 Greenway Center Drive, Greenbelt MD
Behind Greenway Shopping Center at Rt 193 and BW Parkway

Speaker:
John Simpson
1991 Director of the Secret Service

MENUE
Top Round with Mushroom Gravy, Baked Potato
Caesar Salad, Vegetable
Parfait / Apple Strudel
Cart offering seconds
$20.00 per person

CASH BAR OPENS AT 6:30 DINNER WILL BE AT 7:30

1992 Annual Spring Banquet
May 10

Name _____ Call _____

Guests Names / Calls _____

Address _____

City _____ State _____ Zip _____

Enclosed is $ _____ for _____ people at $20 each

Group Seating for _____ people is requested. List is attached.

Pick up your tickets at the door. Tickets will be mailed only upon receipt of request and SASE.
Remit to Foundation For Amateur Radio
12016 Long Ridge Lane

Montgomery Amateur Radio Club

Meetings:	1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
Repeater:	146.355 in (Rockville & Germantown)/146.955 out (Rockville)
Mailing:	M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611
Information:	Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172
Training:	Ken Nichols - KD3VK (301)977-5405; Dick Hayman - K3DML (301)251-8721

To celebrate the welcome influx of new members into the Montgomery Amateur Radio Club, your Amateur Reporter would like to list the names and call signs (as appropriate), of some recent first and second readings at the Club. Please keep in mind the following list is in no particular order and comprises a representative sampling of applicants to M.A.R.C. over the past several months. By the way, we suspect there may have been some call sign changes since the following list was graciously compiled by Jeff-KZ3F. If you are aware of changes, please feel free to provide input to Jeff and/or your Amateur Reporter directly...so we can update the M.A.R.C. data base:

NAME	CALL SIGN	NAME	CALL SIGN
Jeffrey E. Strandberg	WV3B	Kevin Strishock	N3LGA
Marc A. Pressman	N4DR	R. Thomas Chase	N3LGF
Thomas E. May	KA3GYI	Donald H. Smith	N3LHZ
Donald H. Atha	N3ICO	Harold O. Wright	WI3M
Kelsey K. Kemp	KA8INK	Rodney D. Bennett	K3MDP
Paul D. Edwards	N3IXZ	Neville R. Ridgely	KB8MMU
Carol A. Ridgely	N3JGC	James P. Davis	WA5QOC
Allan Platky	N3JKV	Lyman B. Elwell	WB0QXK
Robert W. Caron	N3KNQ	Devendra Kapoor	KA3UMG
Lynne M. MacKay-Atha	N3KQR	Alexander Benitez	KA3WUY
Ronald L. Rubin	N3KQY	Michael G. Watkins	WB4YVQ
James Horton	N3KTV	John H. Minsek	KA3ZLK
Peter V. Porrello	N3KXI	Eric A. Kratochvil	KA3ZMT
Steven T. Stoller	N3LBZ	Frank J. Kratochvil	KA3ZMU
Stuart Spransy	N3LCA	Jay I. Lubliner	KA3ZMW
Fabian B. Chapman	N3LDH	Harold Bailey	WA3ZTI
Robert L. Rounds	N3LDI	William A. Glaser	Associate
Norman Kaplan	N3LDM	Louis W. Martin	Associate
Irving L. McWherter	N3LDY	Stephen Palmer	Associate
Dale L. Walters	N3LFT	Jason Schneir	waiting
Peter Feldman	N3LFV		

(If we missed Y-O-U, it was unintentional; please advise your Amateur Reporter and we'll publish the particulars!)

On Wednesday, February 19, M.A.R.C. members gathered at Ernie's World Famous Restaurant and Pub (read: "Pizza Parlor") in Gaithersburg, Maryland for one of the Club's quarterly "Eatin' Meetin'" social gatherings. From the size of the crowd, it seems safe to surmise that a 'swell time' was had by all....

If you missed this one, the next regularly scheduled M.A.R.C. Eatin' Meetin' will occur on or about May 20--also at Ernie's--unless M.A.R.C. (as a group) decides otherwise!

(Continued)

Montgomery Amateur Radio Club - Continued

Now on to a Real Treat: as every ham in the Washington Metropolitan area probably knows by now, the M.A.R.C. 2-Meter Repeater frequency was recently re-coordinated by T-MARC from 146.64 MHz to 146.955 MHz (-600 offset). Please note the photograph below which shows some of the Repeater Committee members as they work to re-orient the 2-Meter antenna to obtain a more omnidirectional pattern, allowing for enhanced coverage to the South.

Team of M.A.R.C. Members who Modified Antenna
To Provide Omnidirectional Coverage Pattern

(L-R) Cary - NI2Q Bill - W3WON Mark - N4EOC Jon - N3LIM Steve - K2IYQ Jerry - N3HVC Stan - W3INK
(Stan - W3INK is chairman of the M.A.R.C. Repeater Committee)

Photo by N4EOC

Along these same lines, congratulations again to Stan-W3INK and his core team of hard-working volunteers. As a result of their collective efforts, M.A.R.C. has increased its effective power output from approximately 11 Watts to approximately 25 Watts! At this time, M.A.R.C. would like to express the Club's appreciation to Mark-N4EOC (seriously: M.A.R.C. thanks Mark!) for sharing the results of his photographic skills with the Club...stay tuned (to .955 of course...) for further evidence of related M.A.R.C.onian activities in this very column. (By the way folks, this is Y-O-U-R column; please feel free to inform the Amateur Reporter of events related to M.A.R.C. and Amateur Radio which you would like us to publicize in AUTO-CALL....)

Finally, next month in this column we hope to be able to report upon a M.A.R.C. program scheduled for March 4, being prepared for presentation by Dick-K3DML related to "low-cost antenna design and implementation." Some of us "old-timers" from 1990 remember Dick's colorful presentation entitled "Cheap Antennas for Cheap People" (Hi, Hi). In these recessionary times, Dick probably figured this topic would hit too close to home (ouch!) and has re-arranged the title (but hopefully not the content) of his speech...catch you down the log, etc....

Erinn-N3HSA

Metrovision Amateur TV Club

FAST SCAN - COLOR - ATV

Meetings:	Quarterly: Call for next meeting time and place.
Repeater:	WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out Also accessible on 144.970, simplex, audio.
On-the-air:	Sundays at 8:00 p.m.
Mailing:	Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information:	Dick - WB3EPX (301) 439-8135 Gene - AD3F (301) 774-5307

Thanks to the work of Ruth - K3AGR and Dave - W3PJM, the slate of Metrovision officers for 1992 is now complete. The list consists of the following people:

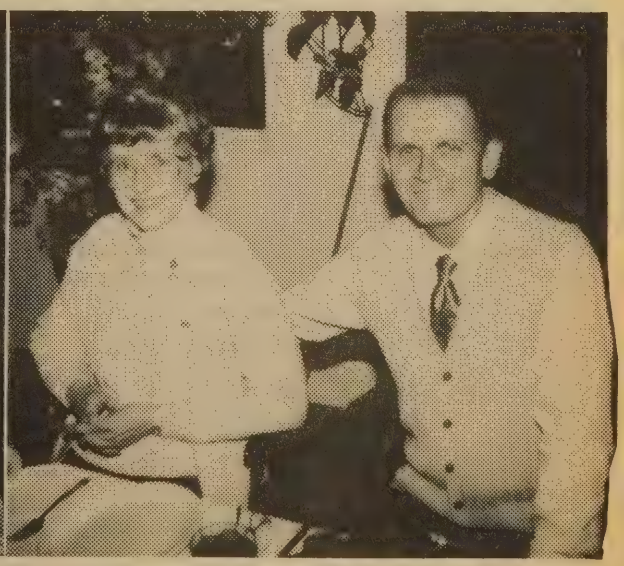
President:	Sam - N3GHY
Vice Pres:	Dick - WB3EPX
Corresponding Sec:	ED-W3EW
Technical Secretary	Bernie - WD4O
Treasurer & Trustee	Bruce - WA9GVK

We want to take the opportunity to thank all of these fine members for volunteering their time to fill these posts. I would certainly encourage all of our club membership to consider serving as a club officer in the future. Please remember that our club is only as good as those people who devote their time to making it that way.

I personally want to thank the following people for volunteering to serve as net control for the Sunday night ATV net: Sam - N3GHY, Bernie - WD4O, and Skeeter - WA3UDY. Because of recent health problems, I have not always been available to do the job myself and I certainly appreciate having these members help me out.

In the next Auto-Call issue we will have details of the Metrovision March meeting. Below are some more pictures from our November, 1991 Metrovision dinner.

Sam - N3GHY and Wife



Dick - WB3EPX and Wife, Jan

If anyone has any material to put in this article, I encourage them to submit it to me. The material can be either of a technical or personal nature.

Dick - WB3EPX

Fauquier Amateur Radio Association

Meetings:	Second Tuesday of each month, 8:00 p.m. local Local. No July or August meetings. Shadow Lawn Center, Warrenton, Virginia.
Repeater:	NZ4N/R 147.165 Mhz out; 147.765 Mhz in.
Digipeater:	K4LLQ-5 145.070 Mhz.
BBS:	N4YXW-1 145.090 Mhz.
Net:	Every Wednesday night at 9:00 p.m.Local, NZ4N/R

The February meeting's first order of business was to allow renowned DX'er, Fred Laun - K3ZO the opportunity to discuss DX and DX-peditions. Since Fred has been at the DX end of a QSO on many occasions, it was a real treat to listen to his presentation. His explanation on criteria for DX-peditions was thorough and thought provoking, and it made us all realize how much planning is required for a successful operation. Thanks so much, Fred, for appearing in Warrenton.

The club is planning a special event station in recognition of the Golden Anniversary of the U.S. Army Communications Electronics Command Vint Hill Farm Station, Fauquier County. This special event station will be manned by members of the Fauquier Amateur Radio Association during the June 13-14 weekend. Certificates will be available to those who QSO the special event station, K4LLQ. One HF station will be operational on SSB, with CW contacts on request. Times and frequencies will be published in all the Amateur magazines.

Congratulations to club members KI4RO and WV3H (ex-WB3CMU & KO4ON) on their upgrade to Amateur Extra Class.

Field Day is only a couple of months away. We must now make final decisions on location, equipment, etc. Put on your thinking cap before next month's meeting!

C U at the meeting.

Dan - N3ND

Prince George's Wireless Assn.

Meetings:	First Working Tuesday of each month, 7:30 p.m., American Red Cross Service Building, 6206 Belcrest Road, Hyattsville, MD 20782
Club Station:	K3CEZ
Mailing:	4109 Kennedy Street, Hyattsville, MD 20781
Information:	Frank Holton, WA3ZMW (301) 927-1245

On March 3, the PGWA held its regular monthly meeting at 7:30 p.m. Attending were 80% of our membership – which was a great turn-out. Guest speaker was Joseph Graves - KA3JMZ.

Joe is working on the NASA space lab program at the University of Maryland. His program dealt with Robotics in Space work. He had many, large photographs showing the building of space structures under water to simulate weightlessness in Space. Joe has a VHS tape showing himself and another diver being fitted into the actual Space suits.

Part of the progrm dealt with tele-robotics where the Astronaut could work on space vehicles or satellites from a remote area. Joe is very enthusiastic about his work and he gave a wonderful presentation.

PGWA is also getting in readiness for a March 18 State-wide emergency exercise named "Hurricane Zelda" which will include ARES, RACES, Office of Emergency Preparendess, REACT and the Red Cross. Our group will work at our club station - K3CEZ and possibly at a satellite shelter area.

Ken - N3HLY

Herndon Repeater Group

Meetings:	On-the-air meetings on alternate Mondays at 9:00 p.m.
Repeater:	N4FXP/R 144.71/145.31 MHz
Packet BBS:	145.09 MHz
Mailing:	Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070
Training:	Michael Weber - WB8RDN (703) 450-2304
Information:	Michael Rosati - N4FXP (703) 481-8380

General Class Course: The Herndon Repeater Group's General Class upgrade course (code and theory) begins March 28 and runs until May 2. As of this writing, the course has nearly 20 students enrolled, many of whom will take the General exam on 9 May. See the Schedule of Exams on page 25 and the Training column on page 24 for details on how to enroll.

Seminars: Please see the Training column for information on the Advanced and Extra math seminars HRG will sponsor on April 11 and April 18. Make reservations NOW!

Exams: See the Volunteer Exam listing on page 26 for information on the May 9 HRG ARRL/VEC session in Herndon at the Herndon High School. (This session was incorrectly listed as April 20 in the February and March issues.)

Picnic/Technical Assistance: HRG is planning a picnic at Lake Fairfax Park on April 5 at 12:30 p.m. As with all HRG functions, listen for more information on the 145.32 repeater announcements or during the Monday nets. In addition to the usual picnic festivities, HRG will hold a technical assistance forum during the Picnic and provide sophisticated technical equipment to check the functioning of radio equipment and antennas such as SWR & power output, deviation, and frequency as well a more detailed measurements. Equipment and assistance will be on hand to assist anyone with minor repairs. This is an excellent opportunity for new hams to learn how their equipment is working and to obtain assistance in correcting any radio equipment and antenna concerns. Contact Tom - WB8ZRP or Jack - N4ULS on the HRG 145.31 repeater for more details. Everyone is invited to attend.

Field Day: HRG will again participate in Field Day on June 27 - 28 from the "Group Campground" area of Lake Fairfax Park in Reston. Operators will be needed (especially on the midnight shift) so plan to attend now. Non-members and the general public are encouraged and invited to participate. For more details, contact Bill - N4WJN or check into the HRG Monday evening net.

Novice/Technician Course: See the training column on page 24 for information on the HRG Fall Novice/Technician Course.

Club Net: The HRG Net meets on alternate Monday evenings at 9:00 p.m. on the 145.31 MHz N4FXP/R machine in Herndon.

New Members: The Herndon Repeater Group (HRG) has received new membership applications and welcomes R.R. Rockey - N6FDL, Dave Scott - KN4ZQ, James Burke, Sr. - KC4ZFM, James Burke, Jr. - N4GOU, Chris Hushak - WA1ZXX and Dee Hushak - N4XLI to HRG. In addition, HRG member Dick Bubeck has received the callsign KD4JVW.

Packet: Information on the HRG packet (145.09 MHz) system can be obtained from Bill - W4WJN on the HRG Repeater.

Dinner Meeting: Nearly 40 HRG members and family met for dinner on 22 February at an area Chinese restaurant. As many have expressed a desire for more frequent dinner meeting opportunities, HRG will be planning more and more functions over the coming months. Listen for announcements on the repeater.

Mike - WB8RDN

MADRAS

The Maryland Apple Dumpling Radio Amateur Society Inc.

Meetings:	2nd and 4th Thursdays of the Month - 7:00 p.m. & 2nd Saturday 1:00 p.m. See text for meeting locations.
Repeater:	444.100/449.100 MHz 145.45/144.85 MHz
Packet:	145.55 MHz Node 44.96.0.85
BBS:	(301) 258-1954
Mailing:	P.O. Box 2468, Wheaton, MD 20902
Information:	Scott Standiford, W3YTW (301) 589-9321 or BBS Larry Zeicheck, N3GKZ (301) 984-6112

April 4–5 - The MADRAS Special Event Station, "Source of the Potomac," will be on the air from Garrett County, Maryland and Mineral, Stevens, and Preston Counties in West Virginia. Operating from Back Bone Mountain, under the call WK3X, MADRAS will be active on all HF bands. We need operators as well as people who can help put up/take down antennas. If interested in participating, contact Gene or Larry at (301) 984-6112. For event QSL, send SASE to MADRAS, Box 2468, Wheaton, MD 20915-2468.

MADRAS is now meeting three times a month. One meeting in Maryland and two in the District.

April 9 - Thursday meeting at 7:00 p.m., WKYS Radio Conference Room, 4001 Nebraska Avenue, N.W. The program will be on Beginners Building Projects by Ed Karch - KC4FYA.

April 11 - Saturday Meeting at 1:00 p.m. at the MADRAS Clubhouse, 11800 Coakley Circle, Rockville. There will be a planning session on a May Fox Hunt. If intersted in attending the pre-meeting breakfast, call (301) 984-6112.

April 23 - Thursday meeting at 7:00 p.m., WKYS Radio Conference Room. The program is on Fox Hunting.

MADRAS' first DX'pedition since Tangier Island, along with an early May Fox Hunt, makes this the most active 5 week period in MADRAS history.

Again, we need operators for "Source of the Potomac."

Scott - WA3YTW

AMSAT Probe to Mars

AMSAT just might send a probe to Mars on the Phase 3D Ariane launch planned for 1995. The launch would be to a very high earth parking orbit, then boosted to an economic Mars transfer orbit probably in late 1996. The probe would be expected to take about 260 days to arrive near Mars and would be timed to arrive during the time when Earth and Mars separation is minimal (approximately 100+ million kms.)

So far there has been no mention of Amateur Radio participation, and it would require some large dish antennas to do the job, but some of the AMSAT fraternity have been giving it serious consideration. In the *RARS Exciter*, Raleigh (NC) Amateur Radio Society newsletter of 2/92, KE4ZV suggests some possibilities, utilizing very low signalling rates (like the *lowfers* do). Probe frequency stability becomes an issue, though, and we don't see an immediate answer to that. "How small can we make an atomic clock?", he asks.

(Information from *RARS Exciter* 2/92)

Tri-County Amateur Radio Club

Meetings:	Semi-annual business meetings, time and date announced on the air and in the club newsletter.
Repeater:	KA3LAO/R, 147.780 MHz in; 147.180 MHz out.
On-the-air:	Tuesdays at 1930 hours (Local time).
	Amateur Radio Newsline Tuesdays at 1915 hours (Local time).
Mailing:	P.O. Box 10592, Silver Spring, MD 20914

The Tri-County repeater continues to regain its health with the help of a lot of people. Earlier this past month the trustee, John - KA3LAO, Tommy - N3HBS, and Dave - N3EJT spent a Saturday at the transmitter site trying to locate the source of the signal loss. Thanks to their detective work, the artificial swimming pool caused by the recent heavy rains was drained from the feed lines and the transmitter started working better than ever. It is interesting that the Tri-County repeater was not the only one affected by water. A lesson to be learned from this experience applies to all of us as spring begins and we can get out to do that long awaited antenna work. Make sure you check your waterproofing of connectors and the antenna elements themselves. It is a proven fact that an antenna filled with water doesn't radiate very well.

Speaking of antennas and transmitters, if you didn't catch it in a recent issue of QST, there was an article about some Amateur operators who purchased a new car. As I recall the article, when they went to install their 2M equipment they were referred by the owner's manual to the vehicle's technical manual for the location of two-way equipment. They checked with the local dealer about these limitations and were informed that the service manual had a fine print notice that only two-way radios of less than 5 watts should be installed due to interference with the car's computer system, and that could only be installed in one location with a specific wire routing. Nevertheless, they installed their 45 watt 2M equipment only to find that on the third transmission the $1,100 computer failed. The moral of this is that we all need to be very careful when we are making any purchases of this nature to make sure that things we have taken for granted in the past (like being able to install two-way radios) have not been overtaken by poor technical designs. We also need to make sure that we ask the appropriate questions to prevent these types of disappointments and disasters.

All are welcomed to join the Tri-County on the air net which meets on Tuesdays at 1930 local. Make sure that you are listening at 1915 to hear the latest NewsLine information. Thanks to the efforts of John - WB3GXW, our net control station, following each NewsLine transmission are the latest ARRL bulletins. In addition to the bulletins, John advises all Amateurs of the latest exam schedules throughout the area. We would like to express to John our sincerest appreciation for his efforts as net control station as well as the coordinator for the VE exam program, and the NewsLine/bulletin information services.

Heard On The Repeater: This feature of our report attempts to provide suggestions for efficient and effective use of the repeater:

- Be sure to listen before transmitting. It is very easy to switch on your radio and, not hearing a transmission in progress, assume that the frequency is not in use. Frequently you hear this happening during net operations or between normal transmission pauses. Generally all are welcome to join a conversation but listening before transmitting will allow for a smoother introduction.

- It is interesting that we still hear stations who do not let the repeater completely drop before they begin their conversation. On the 18 machine (as well as many others) it is good practice to let the repeater completely drop and pause a moment before beginning your next transmission. This technique not only allows for the two minute timeout timer to reset, but permits anyone with an emergency to make a call. Remember, we do not have a "beep" to indicate the end of a transmission and that the timer does not reset until the transmitter completely drops.

- When using the autopatch it is important to identify yourself before transmitting the access codes. (Continued)

National Capital DX Association

Meetings:	Irregular.
	Contact the Secretary for information.
On-the-Air:	Every Sunday at 8:30 p.m. on 147.420. All are welcome.
Information:	Craig Stevens - KZ3H (301) 774-3410

The April meeting of the National Capitol DX Association will be held at the home of Bob Sullivan - WØYVA on 4 April. As usual, we will start with the social hour at 4:00 pm followed by the business meeting at 5:00 and dinner at 6:00. Please let Bob know if you plan to stay for dinner so he knows how much food to cook. Be sure to wear clean socks to this meeting. The Sullivan's have recently installed all white carpeting in their house.

Plans for **DXPO 92** are progressing nicely. The DXPO committee has found a location, drawn up a budget, formed an advertising campaign, and confirmed over half the guest speakers for the program. This year's DXPO will be held at the Holiday Inn in College Park, MD on 10 & 11 October. Prices are $20 registration for the two days of programs, $10 for full time students, and $25 for the Saturday evening banquet. Watch future issues of Auto-Call, all the DX bulletins, the local PacketCluster, and the Ham magazines for further details. Advance registration forms should be ready soon. If you would like to receive a registration form, please contact Joe Sciuto -N4MQX at 703 922-1728 or Stu Meyer - W2GHK at 703 281-3806. **DXPO** promises to be both educational and entertaining for everyone from the new ham just developing an interest in DXing to the seasoned Old Timer on top of the Honor Roll.

KO7V

Tri-County Amateur Radio Club - Continued

Remember that there is the initial transmission delay of one second which could suppress the required ID. After the dial tone is brought up, briefly pause your transmission of the telephone number to allow time for the autopatch link to transfer. It is good practice to pause briefly on each transmission to ensure the links are properly in place.

NOTE for autopatch users: when the control units were redesigned the auto dial number code sequence was changed. Now to use the auto dial numbers you should enter "*nn" after you get the dial tone, where "nn" is the desired auto dial number (they did not change). The list of the auto dial numbers was provided with your autopatch access code package.

Tri-County ARC invites all Amateur operators to join our weekly net on Tuesdays at 1930 hrs, local. Be sure to be listening at approximately 1915 hrs, local, for the Amateur Radio Newsline, an Amateur Radio news service from California. Newsline always has information of interest to the Amateur community.

New members are always welcome to join Tri-County ARC. We have a family membership plan which makes it convenient for our growing Amateur families. For membership information contact us at the post office box, join us during one of our club net meetings on Tuesdays, or contact Paul - N3GII, Tri-County Membership Chairman.

Don't forget that Tri-County ARC also operates a repeater in Ocean City on 147.015 (KA3BAF). All are welcome to use this machine when in the area.

Greg - WA3FSC

Washington Area

IBM Amateur Radio Club

Meetings:	First Wednesday of the month that is a work day. Building 182, Room 3C51 (The Radio Shack)
Chat Net:	Second Wednesday of each month, 5:00 p.m. 145.520
Information:	Joe Handley - K3LLL (301) 640-8096 or The Radio Room (301) 240-6877

The IBM Amateur Radio Club is now a member of the Foundation, and Joe Handley - K3LLL and Tony Young - WA3YLO will be our representatives.

Club officers are:

President:	Joe Handley - K3LLL
Vice Pres:	Frank Pinkl - WA3YHE
Secretary:	Bill Strider - KX8I
Treasurer:	Gary Shea - KB4MED

I am proposing that we have an on-the-air chat net on the second wednesday of each month. This would be from 5:00 p.m. to 6:00 p.m. on 145.520. I hope you can get on the air and let us hear your call. This will be a good way to get to talk to the members that can not attend the regular first Wednesday meetings. Check in and let us know your concerns or aspirations for the club.

The U.S. and foreign call directories are now available in the radio shack. This will make it easy to send QSL cards or to find out the location of various hams. With the advent of new call calls every time some one up-grades their license it is difficult to keep up-to-date. Even with the new books, we will still be looking for calls that are not yet in the callbook.

The IBM QSO Party promises to be a real success. The first phase started March 21 and the second phase will be on April 4. IBM Amateur Radio operators and their families, retired employees and employees of the associated companies are eligible to participate. For further information, contact Gary Shea - KB4MED (301) 240-3938.

Dues are due. Send your $4.00 to treasurer, Gary Shea.

Joe - K3LLL

Christmas in April
Prince George's County Annual Event

Christmas in April is an all volunteer program in which volunteers will work together on April 25 to repair and renovate the homes of low-income, elderly and physically challenged homeowners. All the work done is for free, utilizing skilled and unskilled volunteers, and all the materials used are donated or purchased with funds that are donated. This year they plan to renovate 100 homes. It is quite an undertaking.

Capt. Walt Gompers and Maggie Puchalla of the *Christmas in April* program spoke at the March 11 meeting of the Foundation to ask if Radio Amateurs might provide assistance in connection with the project. Communication will be crucial between all 100 homes, volunteer runners, the warehouse, the command center and the picnic. Foundation clubs will be looking into the possibility of getting a team together. If you would like to participate, contact Tony Young - WA3YLO at (301) 262-1917 or Maggie Puchalla at (301) 868-0937.

Christmas in April is a national non-profit organization. For further information about the program, contact the *Christmas in April* Public Relations Committee at (301) 422-5090 (days) or (301) 953-7809 evenings and week-ends.)

Mt. Vernon Amateur Radio Club

Meetings:	Second Thursday of Each Month, 7:30 p.m. (except December)
	Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria
Repeater:	WD4PDP/R 146.055 input 146.655 output
Nets:	Every Tuesday at 8:00 pm (0100 UTC Wednesday's)
	Starts on 2-meter then moves to 10-meter on 28.405
Information:	Chris Morrow - W4WYL (703)765-5964
Training Classes:	John Forrest - WZ4A (703) 971-3905
Mailing Address:	c/o Frank Mackey - N4GUS, 8072 Athena St., Springfield, VA 22153

THANKS to Steve - KB4WKK for our February program which was a video tape called Last Voice From Kuwait and was about a Kuwaiti who managed to stay on the air during the entire Iraqi occupation.

Unfortunately, I missed the meeting and cannot, therefore, individually thank all who visited us. However, I can say you were very welcome and we hope to see you at another of our meetings...thank you for visiting us!

February's testing session was a snowy morning, so we didn't see quite as many people as we have in previous sessions. It went well and about 2/3 of the people taking tests upgraded! CONGRATULATIONS to all who did so well.

For the past two testing sessions, we have had the use of a tape system created by Ken - N4YGN with assistance from Eugene - NA3B and possibly some others I don't know about. The tape system allows several (15 I think) take code tests simultaneously using earphones at whatever speed they want. The system works beautifully and has helped to speed up the procedure for those taking the tests. THANK YOU Ken, Eugene and any others who helped to make this possible. (Remember, the exams are the second Saturday of each month at Lee District Park in Fairfax County at no charge. Pre-registration (and information) is available by calling Frank - N4GUS at 703-455-1510. Walk-ins will be welcome. Anyone interested in being a VE or helping at the exams (you don't have to be a VE to help out) should also get in touch with Frank.)

MVARC was on hand to provide communications at the Lee District Park craft fair on February 22. THANKS to Steve - WB4EEA, Frank - KD4CCT, Mary - N4TCI, and Dave - KC4WVK for coming out to help.

MVARC is planning a special event on the second weekend in May in commemoration of Fairfax County's 250th anniversary. We will operate both days on several bands at several locations on the original George Washington estate. We expect to have at least one site the public can visit.

Each month, usually about the first weekend of each month, a group of us gets together to prepare the newsletter for mailing (fold, stick labels, and put rubber bands on them). In February, a box of donuts found it's way to the "folding party". It takes us about 1 hour to do the whole job and the time is spent not just "working", but also socializing...in other words, it's fun. Anyone interested in joining us would be very welcome. Give Steve - WB4EEA a call and let him know you'll be able (and anxious!) to help.

April's program will be presented by James Burns about a trip he made to Turkey. We'd love to see you there (April 9th).

Marci, KM4VM

Split Seconds

If you are in need of computer access to accurate time, the U.S. Naval Observatory is providing *"time-by-modem"* at either 300 or 1200 baud. The phone number for this service is (202) 653-0351. Just hit the question mark right after connecting.

The National Bureau of Standards also provides such a service, and its number in Colorado is (303)-494-4774.

Tnx ARRL Letter

"Ole Virginia Hams" Amateur Radio Club

Meetings:	Third Monday of each month, 8:00 p.m. Northern Virginia Coop Building 10323 Lomond Drive, Manassas, Virginia
Repeaters:	Voice: WA4FPM 146.97 and 224.66 Digipeater WA4FPM-1 145.09 Digipeater WA4FPM-3 223.40
Net:	Each Thursday, 8:00 p.m., 146.97 and 224.66
Information:	Harry Vorhauer - W 4PVA 703-368-6050 Steve Frick - N4OGR 703-361-0008 or Metro 690-6547
Mail Address:	Ole Virginia Hams ARC, PO Box 1255, Manassas, VA 22110

Make your plans now to attend the **Manassas Hamfest** on Sunday, June 7 at the Prince William Fairgrounds, one-half mile south of Manassas on Route 234. There will be hourly prizes and parking is free. The gates will open to the public at 8:00 AM (7:00 AM for tailgating). Talk-in will be available on 146.37/97 and 223.06/66. **VE exams** will be held on the following Saturday, June 13, in Manassas. The two events can't be held on the same day since most of the Volunteer Examiners will be busy helping with the hamfest.

OVH's next **No-code Technician class** is scheduled to begin March 17 and complete on June 2, 1992. The classes will be held in Room 3A at Stonewall Senior High School, Manassas, VA. The school is located behind the Manassas Mall at 8820 Rixlew Lane. For information, contact John Fritsch - N4YOB (703) 791-5995.

The following article, entitled "Expensive installation" grabbed our attention and is sure to be of interest to many others. We are reprinting it here with permission of Worldradio magazine. It appears on the back cover of the March 1992 issue:

Expensive installation

It may benefit other Radio Amateurs to be aware of the disaster experienced last week. . .

I purchased a new 1992 Toyota Camry for my XYL - KN4CO. I had her transceiver (a Kenwood 231 A 2M) transferred from her 1987 Camry to her new vehicle. All the equipment and wiring was placed in the same location as her previous car. The changeover was done by a commercial two-way radio shop.

On the first transmission various alarm lights appeared on the dash and remained on. I took the car to the dealer and he informed me that my radio equipment had damaged the main computer which would have to be replaced at my expense of $1,115.

He then produced a shop manual which states that at no time can you operate two-way radio equipment that exceeds 10W output in the 1992 Camry, regardless of how it is installed.

I had no choice except to pay for the repairs but the bad part is that my XYL cannot operate her radio in the new vehicle. When purchasing any vehicle, check with the dealer or your mechanic about such an installation before you go ahead with it! - John C. Harman - W8JH, Tavares, FL.

Mike - N4REI

Maryland Mobileers

Meetings:	First Friday of each month at 7:30 p.m.
	Anne Arundel County Emergency Operations Center, Crownsville, MD
On-the-Air	Every Monday night at 8:30 p.m. on 146.205/805
Address:	P.O. Box 935, Severna Park, Md 21144
Information:	Bill Howard - WB3V (401) 551-6775

The Maryland Mobileers Amateur Radio Club officers for 1992 are:

President:	Bill Howard - WB3V
Vice Pres:	Rod Mann - N3KBY
Secretary:	Jim McCoy - N3EI
Treasurer:	Tom Wilkison - KA3OMU
Director:	Bob White - WO3B

This is the first of the MMARC monthly articles we plan to have in Auto-Call. Catching up for the first few months of the year, we must mention our best ever holiday dinner in December. Bob - W3HEI and Bonnie - WA3UMV, who arranged our dinner, have agreed to repeat their performance this year.

During its February meeting, the club toured the Maryland Public Television's Channel 22 transmitter site. Attendance at the tour was so large that Channel 22 broadcast engineer Fred Willard had to split the tour into two groups.

On February 11, President Bill Howard - WB3V presented Old Mill Middle School North student Michael Laur with the Maryland Mobileers Amateur Radio Club annual S.O.C. (Scientific - originality - creativity) Award. Michael won the award for his science project, a Robotic Finger. This was judged the outstanding project by nine members of the MMARC who acted as judges for the Science Fair. This was the fifth year that MMARC has participated in the judging at the event.

At the March meeting, Ken Stuart - W3VNN, ARRL Technical Advisor and author of the February *QST* article "Getting the Most Out of Nickel-Cadmium Batteries," gave club members even more information on Ni-cads. The April meeting features a presentation by Bob Marcus - W3EEF on lightning protection. Looking to May, Doug Miller - N2GTE and Bob Bradt - K2EB will discuss the packet world. As a special event, the MMARC will once again operate from the submarine *USS Torsk* on Armed Forces Day May 16.

John Baugus - N3JME is conducting a Novice/Tech class with 65 students. It seems that the no-code concept is bringing in more and more students. Certainly our club is seeing a lot of growth.

Visitors are always welcome at the MMARC meetings and nets. Talk-in is available on the club's repeater on (146.205/805).

Jim - N3EI

72, OM – 33, YL

No, those are not typographical errors. "72" is the new operating code recently adopted by QRP operators. It means, "Wishing you Good QRP." QRPers are encouraged to start using it immediately, and to draw attention of others to its existence.

YLs have been using the operating code "33" for over 50 years. Its meaning is, "Love sealed with friendship between one YL and another YL." If you hear these strange sign off operating codes, you now know the unique messages that are being sent.

AMRAD
Amateur Radio Research and Development Corp

Meetings:	Second Thursday of each month, Fairfax County Library, McLean, Virginia
Repeater:	WD4IWG 147.81 MHz in, 147.21 MHz out. Director, Jeff Brennan, WB4WLW WD4IWG is an open repeater for FM voice and digital communications, especially for experimental modes. Autopatch available to members.
Data Address:	CompuServe/Micronet number [72345,1050]
AMRAD CBBS:	(703) 734-1387 Operated by Lawrence Kesteloot - N4NTL E-Mail address is lkestel@muvax2.gmu.edu
Information:	Andre Kesteloot - N4ICK (703) 356-5519 or Terry Fox - WB4JFI 703) 698-7612

AMRAD is a worldwide club of several hundred Amateur Radio and computer experimenters. Its purpose is to develop skills and knowledge in radio and electronic technology; advocate design of experimental equipment and techniques; promote basic and applied research; organize technical forums and symposiums, collect and disseminate technical information; and provide experimental repeaters. We are looking for people interested in any of the technical aspects of Amateur Radio.

The February 1992 AMRAD meeting was a working session on the design and task implementation for the 20 GHz beacon and repeater. Glenn Baumgartner is the point-of-contact for this project.

AMRAD supports two BBSs: The AMRAD BBS, (703) 734-1387, accepts calls at 300, 1200, and 2400 baud. Data path settings are 8 data bit, 1 stop bit, no parity.

The AMRAD BBS has been upgraded in the past few months with new hardware system and a new BBS program. The log-on procedure and query response should now be much faster.

The Handicapped Educational Exchange (HEX) BBS is operated by Dick Barth - W3HWN. HEX accepts TDD/300 baud at (301) 593-7033, and 300/1200 baud at (301) 593-7357. ASCII is N81.

New Editor. AMRAD has been successful in its search for a new Editor of the AMRAD Newsletter. Randy Mays - WA6VFC has agreed to undertake this task. Randy had a professional editorial background which will be much appreciated. The AMRAD Newsletter is published six times yearly.

Current Activities: One of our members located some surplus 4-GHz systems which appear tuneable down to the Amateur band just below 4-GHz. We are looking for stable oscillators and hope to have some new microwave equipment on the air soon.

Upcoming Activities: Now that warmer weather is almost here, thoughts are turning to outside activities on top of high mountains, looking for elusive 10-GHz signals over a 100-mile path. An article on modifying a Radio Shack FM radio for a 30 MHz IF will be published in the next AMRAD Newsletter.

Anyone interested in any of our projects or technical topic, drop by one of the meetings (see masthead) or join us for lunch. We meet every Saturday @ 1230 hours at Tack Rio Grande on Rte. 123 in Vienna. AMRAD repeater for talk-in.

Upcoming Activities: The public service season starts soon and several events supported by AMRAD, as well as other clubs, are scheduled:

April 11	50-Mile Run in Woodstock, VA
May 16-17	MS 150K Bike Tour
May 30	100-mile Run in Fort Valley, VA

Volunteers are needed for all these events. We especially need people in the Shenandoah–Warren–Frederick County area. I am very much in need of some person/people to take over the three events in Shenandoah County. Contact Dave Rogers - N4JGQ @ (703) 237-5465.

Dave - N4JGQ

Southern Maryland Amateur Radio Club

Meetings:	2nd Friday of each month at 7:30 p.m. Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.
Nets:	Tuesdays at 8:00 p.m. on 147.75/15 Repeater Thursdays at 8:00 p.m.on 28.447 USB
Packet:	WA3TAI full service PBBS in Ackokeek, MD 145.03 & 446.075, SMD (WA3TAI-5) NET/ROM Node in Ackokeek, MD 145.03
Repeater:	W3PT/R 147.75/15, Cheltenham, MD. Autopatch to 911
Mailing:	P.O. Box 273, Cheltenham, MD 20623
Information:	Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

SMARC is getting ready to "Spring" into action with a busy agenda that includes the following activities:

SMARC's Novice training classes are scheduled to begin April 6, 1992 at 7:00 p.m. at the Church of the Nativity, 5203 Manchester Drive, Temple Hills, MD. Contact Ray - WI3A (301) 894-0606 or Vic - WA3YUV (301) 888-1388 for more information and/or to sign up!! SMARC has an extremely successful training program, thanks to several devoted and talented instructors. Many of our officers are fairly recent "graduates" and approximately 25% of our membership are "graduates" of our training classes. We are proud of that fact!!

SMARC will be involved again this year with the March of Dimes Walk-a-thon on April 26 in Charles County and with the M.S. Walk-a-thon, a 6 kilometer walk, at the Charles County Community College on April 4. Also, we will be helping out at an Ice Skating Competition at Tucker Road Ice Rink March 28 and 29, 8 a.m. to 3 p.m. Please contact Allen - KA3ZPA (301) 856-3561 or Ray - WI3A (301) 894-0606 if you would like to help out at these very worthwhile and enjoyable events!

SMARC's April meeting will feature Daniel Gropper - KC4OCG with a presentation on the SKYWARN network. In May, David Boyd - K9MX will give us a talk on his duties as an Official Observer. And our June meeting will feature Nancy Draheim - NK4U, the 4th District QSL Manager. Come join us, our meetings aren't just fun. . . they're informative!!!

SMARC's foxhunt season is just about to begin, so get a jump on the competition and plan to attend SMARC's "Build A Dipole Day," and "Build a DF Antenna Day." To be followed by a SMARC FOXHUNT. Look for the dates in the May issue of Auto Call.

And now for some more good news. . . The Repeater Is Back, The Repeater Is Back!!!! On the third trip out to the repeater site, the noise culprit was found – water in a coax connector!!! The antenna on the repeater is a four bay folded dipole array. In the middle of the antenna assembly is a barrel connector to join the upper and lower halves of the antenna together. It seems that over the course of time, water had invaded this connection and was shorting out the RF. The antenna, as of this writing, is being dried out, made weather-proof, and should be installed by the time you read this. Look for W3PT to be on the air with a big booming voice and great big ears once again.

Linda - KA3VNI

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Arlington Amateur Radio Club

Meetings: Third Tuesday of each month at 7:30 p.m.
Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)
Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM
Info: Robert D. Milligan - KI4MB, (703) 533-0650

Philanthropy – It's Catching
At the February 18 meeting, the club thanked Jim - AB4YP for his generous offer of $500 toward new equipment but declined the offer. The committee appointed to assess needs reported that the club's HF transceiver worked fine and that a linear might cause unacceptable RFI. In a separate act of philanthropy, Dennis - W4PWF offered to donate a Robot 70D SSTV receiver to the club. Pundits averred that it was obsolete because some multi-mode TNCs receive SSTV, and suggested that Dennis try to sell the receiver at the Vienna Winterfest and donate the proceeds to the club.

VHF a la Mode
Tom - W4LMW reported a call from Yaesu regarding the club's all-mode 2-meter rig, which he had shipped to them for servicing. They cured the poor sensitivity and proceeded to work on the other problems.

Volunteers Sought
An all-day, statewide American Red Cross emergency drill (Hurricane Zelda") was scheduled for March 18, and the Arlington chapter of the American Red Cross requested the services of operators to operate club station W4WVP and to set up and operate stations at the county courthouse and at a shelter to be set up at a site to be determined. Three operators volunteered at the meeting, but on the net a week later, Arlington County ARES Emergency Coordinator Rick - N4ASX estimated that six operators would be needed and asked for additional volunteers. He mentioned that in addition to the usual 2-meter FM, HF and packet would also be used.

Field Day '92
Field Day '92 was discussed briefly at the meeting. A joint operation with the Alexandria ARC, as usual, is envisioned – probably at Ft. Ward Park. This year it will be the Arlington ARC's turn to "host" the event - i.e., the call will be W4WVP.

Roundtable
Once business was settled, Bob - KI4MB began a roundtable on WARC '92, which had just convened, and expressed concern about allocation of 440-450 MHz to wind-shear profilers. In his opinion, this was illegal because the profiler is not a radar. For a different view, see the March issue of QST!

Auto-Call Nets Two New Members
Two unlicensed, prospective members, John Titus and Charles Attaway, read about the club in Auto-Call and found their way to the meeting. They are now AARC members. Welcome, Fellas!

Spectrum Analyzed
An article co-authored by Vice President Dennis - W4PWF appeared in the March issue of IEEE *Spectrum,* the flagship publication of the Institute of Electrical and Electronics Engineers. In "When the lines go down," Dennis (who in real life is Assistant Manager of the National Communications System Office of Technology and Standards) wrote about current issues in planning to provide disaster communications between governmental agencies responsible for national security and emergency preparedness. Good work, Dennis! (But, five pages with no mention of ARES, RACES, or MARS??)

Next Meeting
The next meeting of the Arlington ARC will be Tuesday, April 20, at 7:30 p.m., at the Red Cross building at 4333 Arlington Blvd (Rte. 50). There's no telling what we might discuss (besides Field Day!) Come early – many gather as early as 7 p.m.

Mike - NW3V

Anne Arundel Radio Club

Meetings:	First and Third Thursdays at 8:00 p.m. Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off Md. Rt 214 near Annapolis
On-the-Air	Thursdays when there is no club meeting, 2030 Local on 147.705/105 Tuesdays at 2030 Local time on 28.410 Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz
Address:	P.O. Box 308, Davidsonville, MD 21035
Information:	Margaret (Holly) Bevan, (301) 923-0229

Attendance at the Novice class which began on February 1 is holding up well. There are approximately 50 serious students left on the roll. One source of great satisfaction is the number of persons attending the voluntary Monday and Tuesday evening code practice sessions at the Clubhouse.

As the result of a special fund-raising effort, AARC is the proud owner of a new Kenwood 450 with a speech synthesizer and automatic antenna tuner. This replaces the Drake TR-7 which has served the club for several years. Dave Walter - N3BFO is spearheading an effort to update the clubhouse in the hope that Club members will make greater use of the facility.

On February 22nd, the DC Area SysOps Council held its annual meeting in the AARC clubhouse. The Council was reorganized into the Digital Mid-Atlantic Radio Council (DMARC). Membership requirements were changed to allow <u>any</u> licensed Amateur Radio operator to become a member of the group. The next meeting is scheduled for April 18th at 2:00 p.m., same place. This meeting could be a source of information for anyone wishing to become seriously involved in Packet Radio. For more information, call George Stickler - KA3DXX at 551-7657.

AARC Life Member Joe Evans - K3KJZ, already incapacitated by a stroke, fell and broke his hip on January 23rd. Following a stay in the North Arundel Hospital, Joe is now in Kernan Hospital (2200 Forest Park Avenue, Baltimore 21207) for therapy and evaluation. Some of his long-time friends might like to send him a card at the hospital or to his daughter at 1904 Pagham, Glen Burnie, MD 21061. He needs cheering.

As a result of generous contributions by his friends, a one-time Bill Cooke Scholarship of $850 will be presented by FAR to a worthy student.

At the AARC clubhouse on February 8th, Oscar Ramsey - NV3G, Bob Israel - WC3I and Bill Cox - KZ3B administered 37 exams to 19 persons. Twenty-one exams were passed. There were ten upgrades. Nancy Alley - NT3Z was the coordinator, James Neiswonger - WB8DWD graded and Holly Bevan - N3BMB was on hand to register.

Member up-grades this month include: Tom Amenta - K3UFO to Extra, Steve Urguiza - N3IDX to General, John Mutch - KA3ZAG and Jim Hudson - KA3ZEA to Technician.

Holly - N3BMB

Chapter X

Society of Wireless Pioneers

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Woodbridge Wireless, Inc

Meetings: 2nd Tuesday of each month, at 7:30 p.m. [1/92 change]
Springwoods Community Center in Lakeridge, VA
Repeater: WB4FQR/R 147.84/24 and 449.9/444.9
WB4GJZ/R 223.18/78
Nets: Mondays, 8:00 p.m. local (0100 UTC) 147.84/24, 223.18/224/78
(the repeaters are linked for the net.)
Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz
Saturdays 9:00 p.m. - in new 10 Meter Novice band 28.460 MHz SSB
Mailing Address: P.O. Box 112, Woodbridge, VA 22194

Hello from Woodbridge. It's been a long time since the Woodbridge Wireless, Inc. (WWI for short) has been represented in these pages. Hopefully we will keep up the correspondence.

The first thing to note is that our meeting day has changed and the place has stabilized somewhat. We now meet every SECOND TUESDAY at the Springwoods Community Center in Lakeridge, VA.

Our officers for 1992 are:
President: Dale Carlsen - WA2IKI
Vice Pres: Gerald Nugent - KC4RGD
Secretary: Rick Sandford - KC4PYS
Treasurer: Robin Klein - N4VZU
Activities Chairman: Dave Morris - KC4NDU.
Elected to the Board of Directors were
Jack Carwile - WD4KOF, Stu Mitchel - WA0DYJ and Bob Walters - NQ4K.

The new no-code Technician license class has succeeded in sparking greater interest in Amateur Radio in Woodbridge. We have a number of new hams and WWI-ers who bring a high level of enthusiasm to the club and the hobby. There are a lot of young ones, too. The February meeting featured a lecture and demo of packet radio and we had about 85 people there. The place was packed! I couldn't help but notice that most of the "Tech Lite" licensees were busily studying Morse Code. The lure of HF is as strong as ever once the first entry into hamming is accomplished. The threshold for that "first step" is now more manageable for most folks. Furthermore, the VHF bands are not ruined as most of the gloom and doom crowd predicted. In fact, it is the more advanced Amateurs who seem to be trashing things up.

I saw a message on a local bulletin board tonight expressing the writer's disgust about the "no-code" hams. The language was sprinkled with 4-letter words and they weren't "love". I checked the callbook listing and found the author was a Technician-class licensee. No offense meant to all the tech's who worked hard to get there (I'm married to one and yes, she passed the code test), but that's hardly a lofty perch from which to pontificate on the effect on the bands of the no-code technician license! We have the right to express our opinion on issues of the day, but when it comes to how we say things, Amateur Radio has always prided itself on a higher standard than that exhibited by the 18-wheeler intercom on 27 MHz.

WWI is in the fourth week of a 13-week General/Advanced course. About 7 persons signed up the first day and more were expected to dribble in. The code is being taught, but lightly.

Denis - WD4KXB has acquired some radios to round out the complement at Potomac Hospital dedicated to contingency operations. Denis also organized a calling tree of all local hams who will man the radios and the 4-wheelers should the situation warrant it. Thanks, Denis.

Congrats to WWI 10-giggers who ranked 1st in the 4th Call Area in the 6th annual ARRL 10-GigaHerz Cumulative Contest. Operating from Reddish Knob and along Skyline Drive were KA4CKI, K4HWG, KØRI and WB4EIY.

Jim - WJ4M

Vienna Wireless Society

25 Years of Public Service

Meetings:	2nd and 4th Fridays of each month, 7:30 PM Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeaters:	K4HTA/R 146.085 in/146.685 out, 222.340 in/223.940 out, 448.250 in/443.250 out, 443.375 in/448.375 out
Nets:	Vienna Emergency Net every Thursday at 7:30 p.m. 146.085/146.685. Pow Wow Net every night except meetings at 9:00 PM on 28.400 Slow Speed Code every night except meetings at 9:00 p.m. 28.390 MHz
Information:	Margy Patterson - N2JRG (703) 620-1727
Training Classes:	Paul Wilkins - AB4CY (703) 560-2279
Mailing Address:	P.O. Box 418, Vienna, VA 22183

Winterfest™ was a great ham fest. It didn't seem quite right with the warm weather. I didn't mind at all but some thought it was a bit untraditional.

I think all hats should be off to Nancy - NK4U for a job well done. She brought a few new items to Winterfest like DXCC field checking and the BUS. Nancy found a NICE BUS to run a shuttle service from the park-and-ride at the Vienna Metro. We hope everyone found the bus an asset. Winterfest™ has always had a parking nightmare and the bus seems to have greatly reduced the number of towed away hams.

On the Saturday before Winterfest we had a large crop of hams and soon to be hams at our VE exams. Ron - WO2L ran the session of 88 applicants. It was a bit slow going at first due to the unexpected number of applicants but went extremely well. Hopefully we will have a few new VWS members as well as some new VEs.

VWS plans to set up a station at the Falls Church Technology Day on March 21. This is a new community event designed to expose people to new technologies they may not be familiar with. I hope it goes well and continues in the future.

March also brings us our fancy social event of the year. Our banquet this year is being brought to us by Rick - N4FBW. We will have our usual fun evening out. The repeater group met for the first time in February and came up with a number of recommendations for our repeaters. These included retransmission of the space shuttle missions on the 440 repeater, which we have received the permission from the Goddard Club to do, this needs the linking to be set up and we're working on that. If we're lucky we will have it up before the SAREX mission.

The VWS meets at the Vienna Community Center on the second and fourth Fridays of the month. We welcome all hams and "wanna be hams". See you at the next meeting.

Margy - N2JRG

Widow's Assistance Program

The Foundation's Widow's Assistance Program has been in operation for many years and has accomplished a great deal for the families of our Silent Keys. The program offers to help widows (and other family members) evaluate and dispose of radio equipment in an Amateur's estate. Listings of Estate Sales are carried in the Shack Sales of Auto-Call magazine free of charge, and major items are offered for sale at local hamfests. No fee or commission is charged the families.

Interested parties should contact a local Foundation member club
or call the Widow's Assistance Program at (301) 262-1917

Goddard Radio Club

WA3NAN

Meetings:	Third Wednesday of the month at 5:00 p.m. Goddard Radio Club Station, Soil Conservation Road, Greenbelt Maryland, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.
Repeater:	146.835 MHz
Net:	Information net every Thursday evening at 9:00 p.m. local time. All Amateur Radio operators are welcomed.
Information:	Chuck Sommer - N4OSD (301) 794-3280 or Vikki Gigante - KA3PVS (301) 249-2609

The Shuttle Retransmission Workshop was a big success. Thanks to all who participated and to those speakers who made everyone understand what being a shuttle retransmission operator is all about. Thanks to Ron Parise for explaining the Keplerian Elements to us and to Chuck Sommer for telling us about security and safety procedures and to Bill Graettinger for talking about all of the equipment and to Pat Kilroy for talking about carts and getting the word out. It looks as though we will have about fifteen new shuttle retransmission operators and we can certainly use every one of them.

The STS-45 mission should be history by the time this comes out. The next mission will be in early May. It will not be a SAREX mission, however, the next SAREX mission will be in August. Get those HT's ready to go. Hope you were all successful in contacting the astronauts on board STS-45.

Ever wonder and can't remember what the frequencies are for shuttle retransmission? The club's next fundraiser should take care of that. Hopefully, we'll have it available in time for Timonium. If not, shortly thereafter, some lovely ceramic mugs with the shuttle frequencies on them should solve the problem of just what are those frequencies for a long time. Just a reminder, 147.45 is the simplex frequency for the local area.

It is that time of the year when our present officers terms of office are about at an end. Elections are at our May meeting. The present officers would like to thank all of you for your support this past year and ask you for your continued support of the club and shuttle retransmissions in the year to come!

WA3NAN has been getting a great deal of support from all of you and we appreciate your congratulatory messages and your volunteer operating. Please know that you are all welcome to visit anytime a shuttle is up and we are operating shuttle retransmission. We'd love to have you, especially as the new shuttle trailer becomes operational sometime next year. A lot of hard work is going into making that trailer operational so that shuttle retransmission will have a home of its own.

There is a group of dedicated volunteers spearheaded by Bill Graettinger and Russ Jones who make it their business to be at the club every Saturday morning from 8:30 - 12 noon to do all of the carpentry, wiring and other work that needs to be done to make this dream a reality. If you can volunteer a couple of hours on a Saturday morning, just show up at WA3NAN or call one of the officers for directions. It will be an exciting place to do retransmissions from when the effort is complete. Thanks once again for all of your help and support!

Vikki - KA3PVS

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Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

WIDOW'S ASSISTANCE
Estate of Elton Davis - W4KP

FOR SALE: Ten-Tec HF Transceiver, Model 540, with frequency readout and Power Supply Model 262-G $300
Drake Antenna Coupler, Model MN-2000 $250
Heath HF Transceiver, Model SB-104 with speaker and accessories $350
Heath HF Linear Amp. Model SB-200 .. $325
Heath HF Linear Amp. Model SB-220 .. $450
Heath External VFO SB-644 u/w SB-104 $150
Heath 2-meter Transceiver, HW-2036 .. $25
Much more Heath Equipment:
VHF Amplifier, Power Supply HP-1140, SWR Meters, Dual VHF Watt Meter, Dummy Load, Capacitor Testor, FET Transistor Testor. Also tube tester, three CB Transceivers, RF Switch Box, Vintage Vibroplex Key. For information call Mrs. Elton Davis at (703) 356-7215 or John Swafford - W4HU at (703) 536-9537 (FAR)

POSITION WANTED: Ham with 20 years experience in data communications. FCC first phone, Extra, ARES / RACES, VE SKYWARN, CAD, DOS, UNIX. Seeking position as marine radio operator, apprentice working to second telegraph. Will work P/T temporary mid/night watch. T.J. O'Brien - AC4HW (703) 256-7615, Annandale, VA (03)

Need antenna or tower work done?
Call L. Chertok - W3GRF.
(301) 297-4888

HAM PARADISE $229,900
in Loudoun County, Virginia. 1¼ hours from D.C., 45 minutes from Dulles airport. On top of the Blue Ridge Mountains at 1800 feet. 10 acres, **no restrictions**, underground facilities - no noise. Ideal DX and repeater site. With free standing 70 foot fire tower. No more climbing. Walk up the stairway to the top, then work on the antennas in a 7 x 7 foot enclosed space! 3/4 Bedrooms, Living Room, Kitchen, Dining, 2nd Living Room on second floor. Full walk-out basement with finished radio room. 115/230 volts. Finished office or sewing room, storage room, shop and laundry areas. Screened porch, deck, and extra large two car detached garage with RC openers. For details call K4RZ collect at (919) 637-7329 or Marge Burton at (703) 847-9111

HAM RADIO HEAVEN $349,500
High Ridge Top Home with 360° panoramic views. No antenna restrictions. 5½ acres assures privacy. Located 2 miles south of Leesburg, Virginia near Mount Gilead. California Contemporary with majestic direct views of Tysons, Dulles Airport, Rockville, DC, Frederick County and more. Easy access to Dulles or Toll Road. Heated indoor pool. Ideal for an Amateur Radio operator, Astronomy Buff, or bird watcher. Owners willing to consider other properties as partial trade. Call WB4JCY (703) 771-1222 (05)

NORM'S ROTOR SERVICE
Rebuilt Rotors, Parts & Service
Call Norm Jeweler - K3LYW
5263 Agro Drive
Frederick, MD 21701
(301) 874-5885

ANNOUNCING!
THE 1992 GREATER BALTIMORE HAMBOREE AND COMPUTERFEST®

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SHACK SALES

WORLDRADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only $14 per year ($15.09 in California, $24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to WORLDRADIO, 520 Calvados Avenue, Sacramento, CA 95815. (Swp)

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Send SASE for Samples
K3UAL Print, 1520 Jutewood Avenue
Hyattsville, MD 20785
Phone (301) 773-9383 or 773-5074
(052)

WANTED: In any condition:
¤ Collins KWS-1 Transmitters
¤ Collins KW1 Transmitter
¤ Collins 30K Transmitter
¤ Collins 51J/75A Series Receivers
¤ A cabinet for Collins 32V-2 Transmitter
¤ The desk part of the Johnson Desk kilowatt Amplifier.

Howard M. Mills - W3HM Rt #3, Box 712, Harpers Ferry, WV 25425. Call D.C. (202) 647-2428 (Work) or (304-876-6483 (Home after 7:00 p.m.) (05)

WANTED: Quotes on all Collins AM and SSB, Linears, 30S-1 Etc., Etc.
BUYING surplus stocks of vacuum tubes - receiving, transmitting and special purpose types, tube testers, Etc. M. Levy - W5QJT, 539 McCarty, Suite 407, San Antonio, TX 78216 Telephone (512) 366-3289 (06)

SLIDE RULES WANTED
All Types for Museum Display
Bob Hill - NK3W
200 Agnes Lane, Linthicum, MD
(410) 789-4772 Zip 21090-170205

WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC,Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. Please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. You are invited to check into the WB2JKJ CLASSROOM NET at 1200 UTC on 7.238 MHz or on 21.395 throughout the day. We hope to meet all of our friends at the DAYTON HAMVENTION where we will be monitoring 144.30 MHz simplex daily. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, FAX (516) 674-9600
(05)

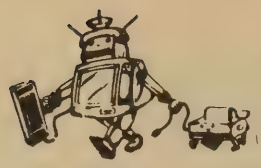
FOR SALE: ALPHA no tune 1.5 KW Amplifier, 10 thru 160 meters $1600
ICOM Model SM-10 compressor / graphic equalizer desk top microphone $110
DRAKE R-7 Service Manual $40
Bob - W4JNN, (703) 560-7161, PO Box 166, Annandale, VA 22003 (04)

CONNECTORS

PL259 High grade	59¢
Reducers 175-176	20¢
Right angle "N"	$1.50
UHF T Connector	$2.00
N type T Connector	$1.50
N type crimp	$1.00

Introductory Special USA
PL259 silver/Tefflon - 25 pcs . . . $19.95
SATELLITE HEADQUARTERS
Phone (804) 239-7585
9310 Timberlake Road
Lynchburg, VA 24502

SHACK SALES



COMPUTER CORNER

TANDY COMPUTER: 1000TL, 30M Hard Card, 3½ & 5¼" drives, 2400 Baud Modem, CM-11 Color Monitor $1495
More than $1000 in software on hard card (Wordperfect 5.1, Lotus 123, etc.) Ideal for home or small office. AG3V 410-343-2075 (04)

FOR SALE: Original IBM PC/XT w/10 MB Hard Drive, original IBM EGA Monitor.
Best cash offer over $200
John Small - KN4LI (703) 759-3838 (05)

FOR SALE: Assorted Commodore C-64 software (mostly educational for children). Phone for details. Carl - K3RV, Vienna, VA (703) 242-0360 (04)

FOR SALE: CUSHCRAFT A3S Tri-Bander with 40-meter Add-on. All stainless steel hardware, Manual $225
HEATH Remote Antenna Switch w/cable $70
Will consider trade for 2-meter rig. Burt - WA3G, (703) 641-0719, Falls Church (04)

FOR SALE: DENTRON GLA 1000B Amplifier, 400 watts output. With 10 meter modification kit, 4 unused final tubes. Amplifier used less than 200 hours. Like new $275
SWAN 175 with power supply, D-104 mike. Converted to 160 meters. Needs tube / check-out $75
Jim - W6NRJ (301) 977-8583, Gaithersburg, Maryland (04)

PHD Associates LEESBURG, VA. (703)-777-6949

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REALISTIC HTX-202 *2M H-T: Loaded with Features !*
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"RIG SAVER" *Universal Hand-Held/Mobile Radio Mount*
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(04)

FOR SALE: UNUSED TEN-TEC: OMNI V, with 256, 257, 218, 282, 285, 288, 301, 700C, 705; also KLM KT-34XA with Heavy Duty Boom in unopened carton. Call or write for details. AG3V (410) 343-2075 or write P.O. Box 1142, Cockeysville, MD 21030 (04)

WANTED: Manual for a Lafayette BCR 101 Receiver. Will reimburse costs for copying. Also looking for a 2-meter base antenna and an antenna for the Lafayette. Help out a new Ham! I have lots of IBM software to trade for an antenna or working ham gear. Call Scott Johnston - KD4EBL (703) 280-2797, Fairfax, Virginia (04)

FOR SALE: Hustler 5-BTV vertical antenna $35
Also elderly Hallicrafter receiver SX-100 . $35
Receiver could be collector's item. Call Andy - WA4GSV (703) 549-5118, Alexandria, VA (04)

FOR SALE: Sanyo FT 928 AM/FM cassette car stereo, digital LCD display, Dolby, Auto Reverse, feature packed unit. Excellent condition. For details, call Mike - WB8RDN (703) 450-2304, Sterling, Virginia (04)

Are you interested in 6-meter (50 – 54 MHz) Activities? Join the Metropolitan Communications Network Radio Club, Nets: Saturday 8 p.m. (local time) on the club FM Repeater 53.250 out/52.250 in; Sunday 9 p.m. on 50.400 and 8 p.m. on upper side band 50.125. For more information call Bob Milligan - KI4MB at (703) 533-0650 or see the Auto-Call Index for club news column.

FOR SALE: Hustler HF Mobile antenna package deal. 10-12-15-20-40-75 meter resonators, MO2 break-over mast, QD2 quick disconnect, BM1 bumper mount. All for $90
MFJ945C 10 to 80 meter mobile ant. tuner $60
MFJ280 mobile speaker $10
Tube tester EICO 625, has chart, no manual, one up down knob missing $15
Greg - KA3DBG (301) 946-6460, Rockville (05)

WANTED: Yaesu YO-901P Monitor Scope with band scan (Pan Adapter). Must be clean and operational, with manual. Call Jim - N3IDU (301) 843-1210, Waldorf, MD (04)

ATTENTION SCANNER OWNERS
The Southern Maryland Frequency List is now available thru mail order.
2500 listings for MD, DC and Metro Area.
$12.95 from Southern Patuxent ARC
1445 Parran Rd., St. Leonard MD 20685
(05)

FOR SALE: Rohn HDBX-48 with VHF Stationmaster antenna and 10' 2" mast $225
Dave Bolston - WA4TXE (703) 430-1488, Sterling, VA (04)

WANTED: Citizens Radio Call Book Magazine 1920 thru 1926. Department of Commerce "Radio Stations of the U.S." for 1913, 1914 & 1915. Department of Commerce "Amateur Radio Stations" for 1924, 1925 & 1927. Department of Commerce "Commercial & Government Radio Stations of the U.S. for 1922, 1923, 1926 & 1928. Radio Amateur Call Book Magazine (Flying Horse Cover) for 1926, 1935 & 1936. Bob Arrowsmith - W4JNN, PO Box 166, Annandale, VA 22003 or call collect (703) 560-7161. (02)

INSTITUTE OF RADIO COMMUNICATIONS
For high speed CW, theory, Radar and Teletype to prepare the student for any grade of Amateur or commercial FCC license. Call (301) 568-3185.

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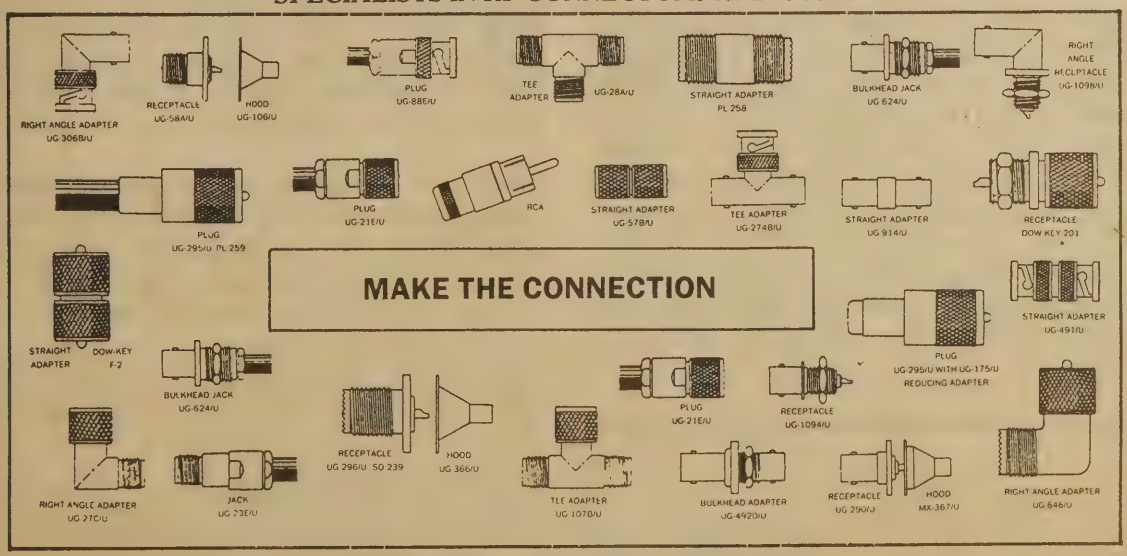

The R.F. Connection
213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877
301-840-5477

280

SHACK SALES

WANTED: Old, odd, unusual bugs (speed keys). Smiley-WB4EDB, PO Box 5150, Fredericksburg, Virginia 22403 Phone (703) 373-0996. (09)

WANTED: VCR, Beta or VHS, needed for a museum amateur display. Needs tuner working on Channel 3 but tape deck need not work. Laurie Gray-K3AK (301) 530-8779 (04)

FOR SALE: Vacuum variables - 1200 pf @ 15 KV (needs shaft) $70
750 pf @ 5 KV $40
King size roller inductor $35
Raytrack Speech Processor with connectors for Heath SB-line and Drake 4-line or Collins S-line $25
Turner amplified hand mike $13
(never used.) Call Carl-K3RV (703) 242-0360, Vienna, VA (04)

WANTED: Old retired Air Traffic Controller wants Gonset Model 3116B Receiver. Manual tuning 108-135 MHz aircraft frequency. Floyd Martin-W4RW (703) 430-2499, Sterling, Virginia (05)

WANTED: HEATHKIT HW-7, KW-8 or HW-9 QRP Transceiver in excellent working condition and with manual. Jay Madigan-KC4UBM (703) 444-2633, Great Falls, VA. Please contact in evenings. (04)

FOR SALE: PARTICULARLY FOR COLLECTORS Heath Hi-Fi VT equipment, complete with manuals FM3, AA191, AJ41, PT1, BA12, AC11, etc. KENWOOD reverb RA80; KAY 33W 703 guitar amp; REALISTIC Lab 49, Lab 100 turntables; T 99/44 computer, thermal printer, paper; Timex Sinclair 1000, printer, paper; HEATH EC-1 analog computer with parts and documentation. Call Herb Ley-N3CDR (301) 942-8461, Rockville, MD (04)

LOW PRICES
FOR CONNECTORS
UHF - VHF - TNC - N - TV - Satellite.
Catalog $2 now, $4 credit with first order.
SATELLITE HEADQUARTERS
9310 Timberlake Road
Lynchburg, VA 24502

FOR SALE: AEA Isoloop Antenna 14–30 MHz with control box, connectors, cables and manual $235
Call Jim-N3IDU (301) 843-1210, Waldorf, Maryland (04)

FOR SALE: 2 each TV Camera Lens
1) Fuji Photo Optical - Fujinon - TV-Z 1:1.8 / 20-100mm F12-4 Zoom
2) Cannon Zoom Lens C-16 25-100mm 1:1.8 has carrying case ..... each $75
Call N4MM (703) 837-1340, Boyce, VA (04)

FOR SALE: Bearcat BC800XLT Scanner with Cell Tel Band, 40 channel, mint condition $175
Call Peter-KA3MFT, (301) 493-4405, Bethesda Maryland (04)

REMEMBER The BRATS
Maryland Hamfest and Computer Fest
SUNDAY, July 26, 1992
at the Timonium Fairgrounds, Maryland.
Write to: BRATS, P.O. Box 5915;
Baltimore, Maryland 21208, or call
BRATS HAMFEST LINE: (410) 583-9147.

Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707. Phone (301) 725-4229. (Swp)

Attention Amateur Radio Newsletter Editors. **AMATEUR RADIO NEWS SERVICE** is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 60068

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Leesburg, VA

April Features

Skypoint Ham Center

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Leesburg, Va 22075
703-777-9188

APRIL
92

New rigs, antennas & station accs.

Source for vintage rigs.

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Customer satisfaction a priority!!

We get new hams on the air at reasonable prices.

Skypoint Ham Ctr is located on Catoctin Cir SE off RT 7. From Tysons take RT 7 N.W . Coming into Leesburg go to 4th traffic light. Make left at Johnsons Beef House on Catoctin Circle SE. look for Honda sign on left. Our store is in bottom level of two story building next to Honda. Look for our antennas on top of building.

Store Hours Tue - Sat 10 - 6

Used Equipment Listing

KNWD TS-520S, VFO-520
KNWD TS-820
KNWD TS-820S
KNWD TS-820S
KNWD TS-430S, SP-430, MC-60
KNWD TS-940S/AT, SP-940
KNWD TH-26AT
KNWD TH-26AT
KNWD BC-11
YAESU FT-101E, SPKR, MIC, D/D
YAESU/HENRY TEMPO 2020
YAESU FT-ONE, SP-980, MD-1
YAESU 757GX11, FC-757A/T
QSY'R FOR FT757 WITH ABOVE
ICOM 720-A, P/SPLY
ICOM IC-2KL LINEAR AMP
DRAKE C-LINE
DRAKE TR-7,P/SPLY
HEATH APACHIE
HEATH WARRIOR LINEAR AMP
HEATH SB-200 LINEAR AMP
HEATH SB-221 LINEAR AMP
GONSET GSB-201 LINEAR AMP
HEATH LOUDENBOOMER LIN AMP
JOHNSON RANGER 11
HALLICRAFTERS HQ-170
HALLICRAFTERS HQ-100
NATIONAL NC-188
COLLINS 75A-2
COLLINS 548 U-6 COMM LIN AMP

CALL FOR MORE ITEMS NOT LISTED

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address in not included, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a $1.00 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a $5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - $1.00 per column inch for non-commercial ads, $5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

Rates per Issue

Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	$75.00	$90.00	$100.00	$105.00
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1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
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1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy.
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Copy must be received by the 5th
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(e.g., Copy for August issue must be received by 5 July)

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$30 in U.S. $42 elsewhere (U.S funds) Licensed amateurs or age 65 or over, upon submitting proof of age, may request special dues rate of $24 in the U.S. $36 elsewhere in U.S. funds. Persons age 17 and younger may qualify for special rates, write for application.

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Hugh Turnbull, W3ABC
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College Park, MD 20740
Phone: (301) 927-1797

Roanoke Division Director
John Kanode, N4MM
Rt 1, Box 73-A
Boyce, VA 22620
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AUTO-CALL Magazine

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APRIL 1992

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Anne Arundel EXAMS California MD	3 Mobileers Shennandoah	4 Stafford EXAMS College Park Middletown Williamsburg
5	6 Adams County Dept of State	7 Antietam PG Wireless	8 Pentagon S.Patuxent --- FAR ---	9 AMRAD Mt. Vernon No. Virginia MADRAS	10 Alexandria SMARC Vienna	11 Stafford EXAMS Alexandria Davidsonville Harrisonburg
12 (MetroCom) 3/6/9/12 EXAMS Bedford, VA	13 (PVRC) (9 thru 5 6/7/8 vary)	14 Frederick Fauquier BRATS	15 BARC Goddard MARC QCWA #137	16 Anne Arundel QCWA #20	17 Rock Creek Shennandoah	18 Tri County Stafford EXAMS Laurel
19	20 Ole VA Hams Sterling Park	21 Antietam Arlington Woodbridge	22 Laurel	23 MADRAS St. Marys	24 New Carrollton Vienna	25 Stafford DAYTON HAMVENTION
26 Adventists CARROLLCOUNTY HAMFEST DAYTONHAMVEN EXAMS Hagerstown	27	28 Columbia	29 QCWA #20 EXAMS Glen Burnie Timonium	30	31	

NCDXA Net every Sunday 147.420 at 8:30 p.m.

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Permit 757

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Falls Church, VA 22040 – 1452

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